SENTON

■ EMV-Prüfzentrum ■ EMI/EMC-Testcenter ■

Straubing, February 14, 2002

T E S T - R E P O R T

No. 56305-20086-1

for

PC24E-H-FC with Telex 2.4 GHz WLAN Directional Antenna

RF-modem for wireless LAN with external antenna

Applicant:	Agere Systems 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-H-FC with Telex 2.4 GHz WLAN Directional Antenna
Serial number(s):	01UT34333360 (RF-modem) 1202 (external antenna)
Type of equipment:	RF-modem using DSSS technology for wireless connection for e.g. portable and mobile computers which have a PC-card-bus (PCMCIA) with external antenna.
Version:	RF-modem and external antenna as delivered, PCI-adapter with two additional springs mounted on printed board improving contact of PC-card to bracket (for details see "Photographs of EUT and Host" collected in Annex A)
Parts/accessories:	see "Configuration of EUT and Peripheral Devices" on page 7
FCC-ID:	IMRWLPCE24H

Applicant: (full address)	Agere Systems Nederland B.V. Zadelstede 1-10 NL-3431 JZ Nieuwegein The Netherlands
Contract identification:	---
Contact person:	Mr. Wout Kerkhof
Manufacturer:	Agere Systems Nederland B.V.

Receipt of EUT:	January 14, 2002
Date of test:	February 4 to 13, 2002
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 registration number:	90926	
Industry Canada file number:	IC 3050	

3. Summary of Test Results

The tested sample (including accessories) complies with the requirements for

- maximum peak output power (§15.247.b) and
- radiated emission (§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).

Johann Roidt
Technical Manager

Rainer Heller
Test Engineer

4. Operation Mode of EUT

All tests were performed using the utility "Client Manager", variant 1, version 2.41. 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 [1]
	Bit rate 2 Mbps	Bit rate 5.5 Mbps	Bit rate 11 Mbps	
2.412	+15	+15	+15	X
2.417	+15	+15	+15	
2.422	+15	+15	+15	
2.427	+15	+15	+15	
2.432	+15	+15	+15	
2.437	+15	+15	+15	
2.442	+15	+15	+15	X
2.447	+15	+15	+15	
2.452	+15	+15	+15	
2.457	+15	+15	+15	
2.462	+15	+15	+15	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	

[1] Full testing with bit rate 11 Mbps only

5. Configuration of EUT and Peripheral Devices

RF-modem module PC24E-H-FC was tested operating with external directional antenna Telex 2.4 GHz WLAN connected and mounted in PC-card slot of personal computer Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W.
External antenna was mounted on left side of PC using appropriate clamp (for details see "Photographs Taken During Testing" starting on page 17).

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

Item	Model or part no.	Serial no.	Designation	Manufacturer
RF-modem	014916/D	01UT34333360	PC24E-H-FC	Agere
External directional antenna	2417NL (order no.)	1202	Telex 2.4 GHz WLAN	Telex
Personal computer	---	CZPN30J	Dimension 4100	Dell
PCI-adapter	020202/A	21790001	PCI-33W	Agere

Table 1: EUT and accessories

6. Setup of Host

Configuration of cables of host

- Non-shielded power lines for AC-power supply of personal computer and monitor, Kawasaki, 180 cm
- 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, 170 cm, Senton inv.-no. 1401
- Shielded USB cable connected to USB port no. 2 of personal computer, Berg Electronics, 50 cm

Configuration of host and peripheral devices

- Personal computer Dell Dimension 4100
  Serial no.: CZPN30J
- PS/2 keyboard Dell SK-8000-2D
  Serial no.: CN-0043CK-38844-154-5637
- PS/2 mouse Microsoft IntelliMouse 1.2A PS/2 Compatible
  Serial no.: 63618-OEM-8720065-9
- Monitor Dell P791 (with fixed video cable)
  Serial no.: GB-049FYF-47604-0C8-D7K9
- 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

7. Measuring Methods

7.1. 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.
See figure 1 for the measurement setup.

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

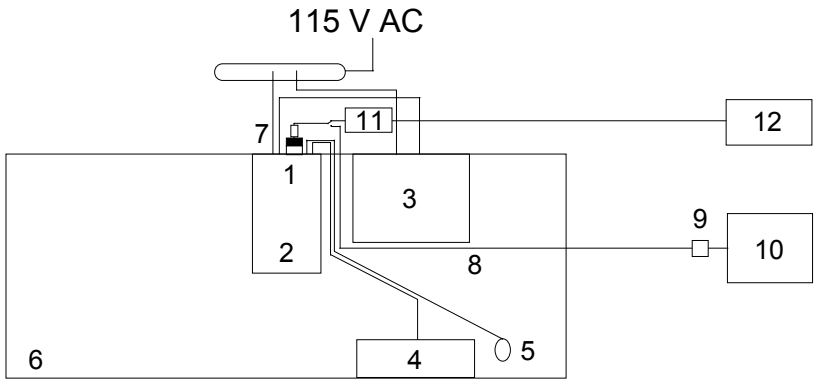


Figure 1: Measurement setup for testing on antenna connector

1 RF-modem
2 Personal computer (host)
3 Monitor
4 Keyboard
5 Mouse
6 Wooden table
7 DC-block
8 Test cable
9 Attenuator (if applicable)
10 Spectrum analyzer
11 Power sensor
12 Power meter

7.2. 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

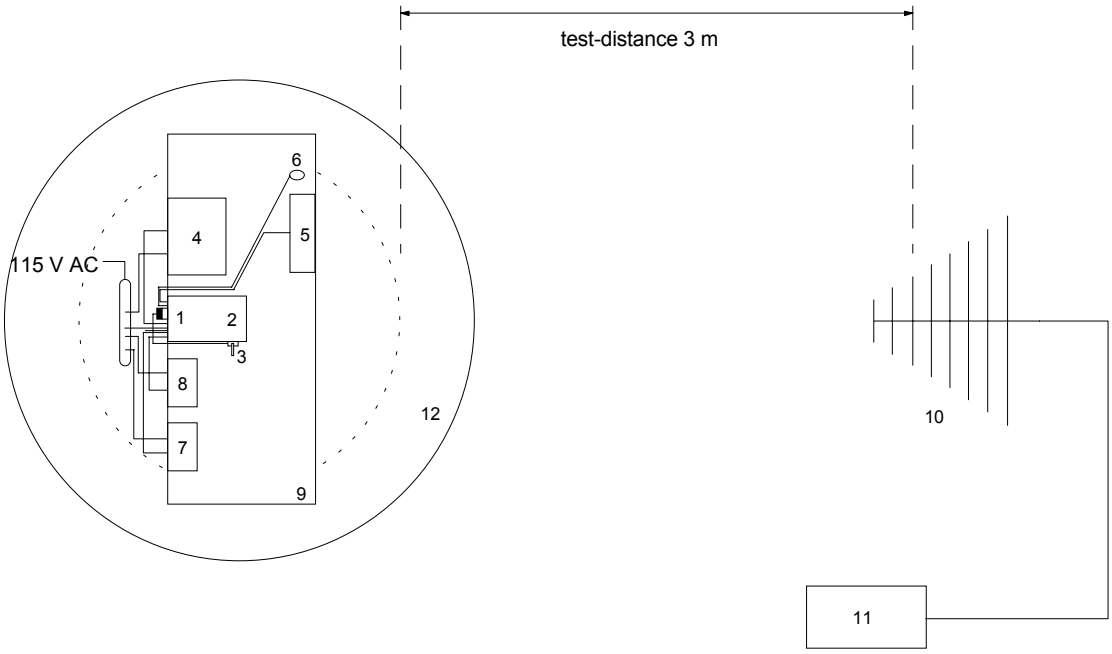


Figure 2: Measurement setup for radiated emission test below 1 GHz

1 RF-modem
2 Personal computer (host)
3 External antenna (mounted on host)
4 Monitor
5 Keyboard
6 Mouse
7 Parallel printer
8 Serial printer
9 Wooden table
10 Measurement antenna
11 Test receiver
12 Turn table

7.3. 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 1 kHz (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.

See figure 3 for the measurement setup.

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

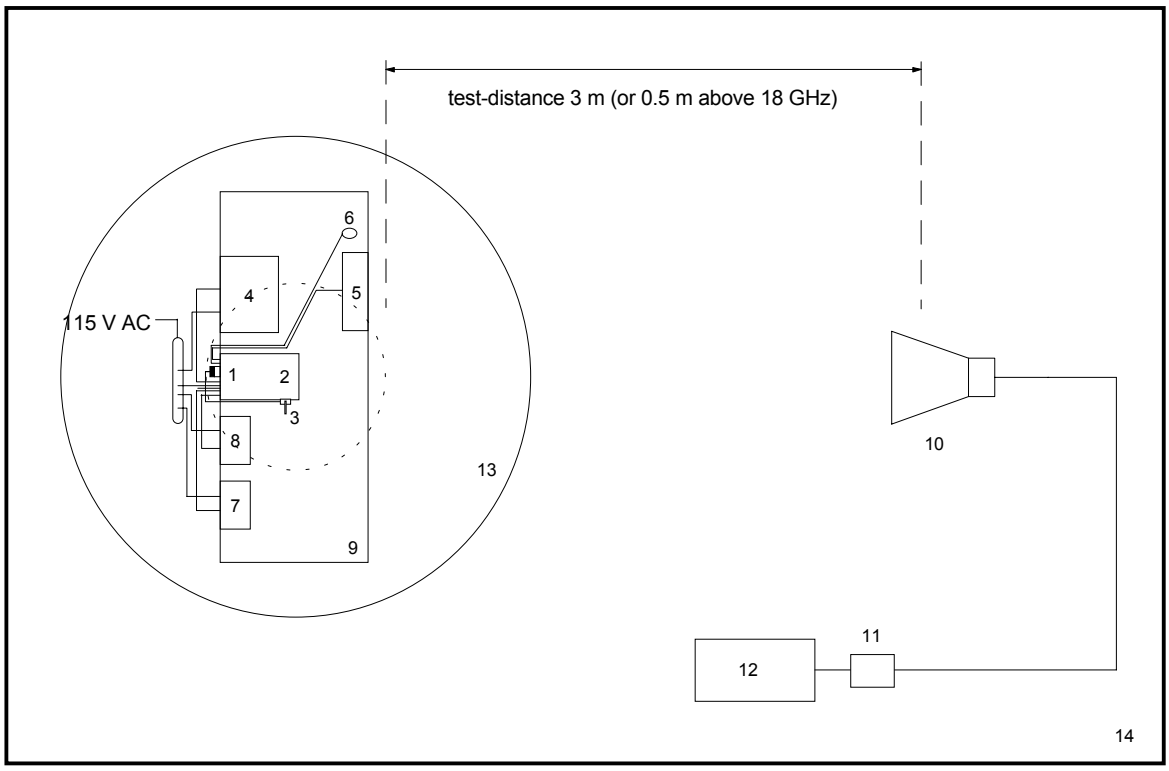


Figure 3: Measurement setup for radiated emission test above 1 GHz

1 RF-modem
2 Personal computer (host)
3 External antenna (mounted on host)
4 Monitor
5 Keyboard
6 Mouse
7 Parallel printer
8 Serial printer
9 Wooden table
10 Measurement antenna
11 Preamplifier (if applicable)
12 Spectrum analyzer
13 Turn table
14 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.

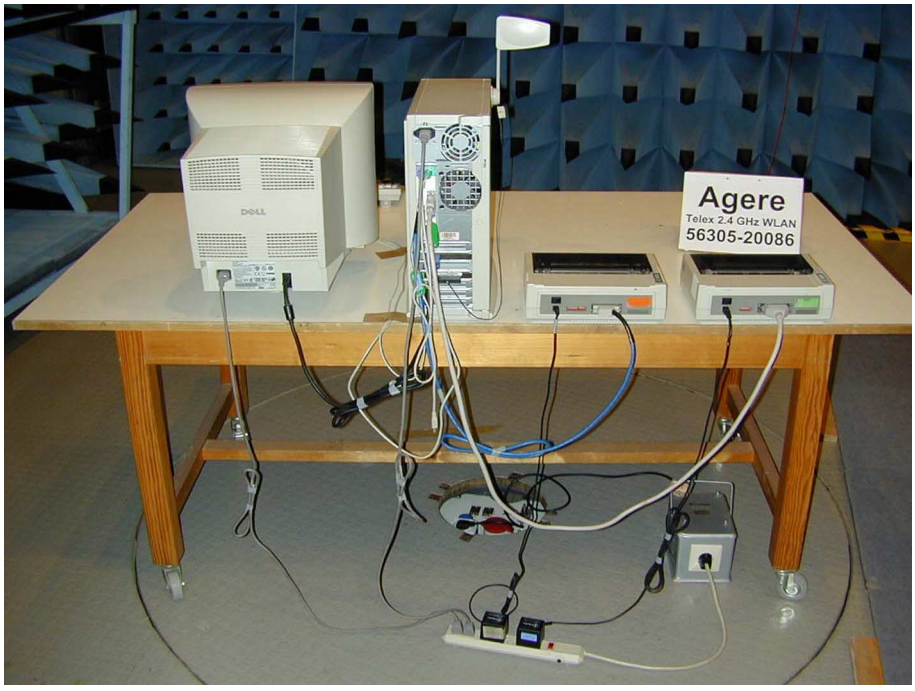
No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	R 3271	05050023	Advantest
02	EMI Test Receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
03	Test Receiver	ESH 3	880112/032	Rohde & Schwarz
04	Test Receiver	ESHS 10	860043/016	Rohde & Schwarz
05	Test Receiver	ESV	881414/009	Rohde & Schwarz
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	AFS3-00100800-32-LN	847743	Miteq
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	1480	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			Agere
68	DC Block 0.01-18GHz		8037	Inmet Corp.
69	High pass filter			Agere

9. Photographs Taken During Testing

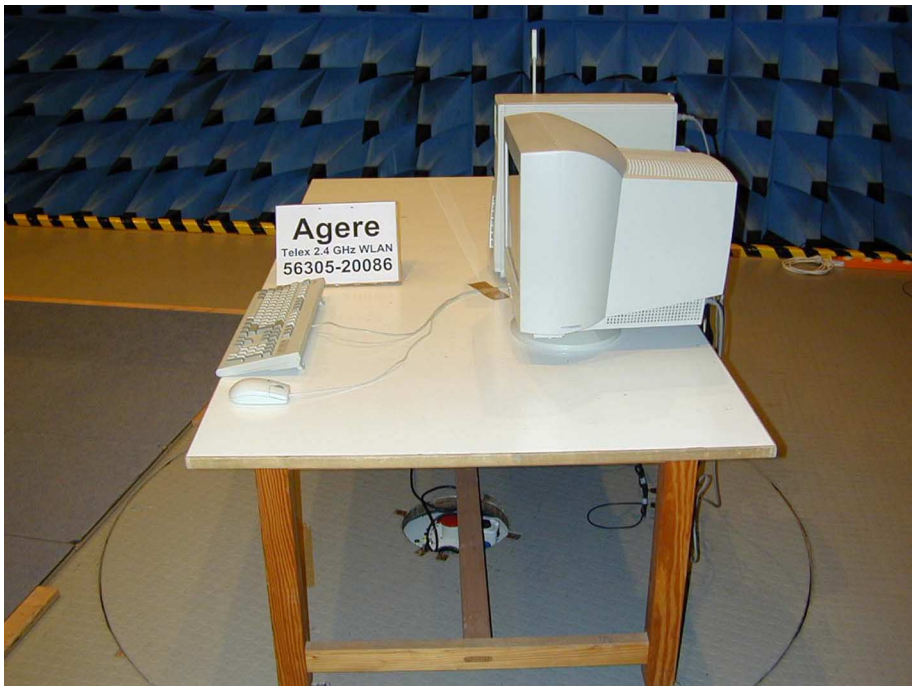
Photos No. 9.1 - 9.2

Test setup for radiated emission pre-test 30 MHz - 1 GHz (semi anechoic room)



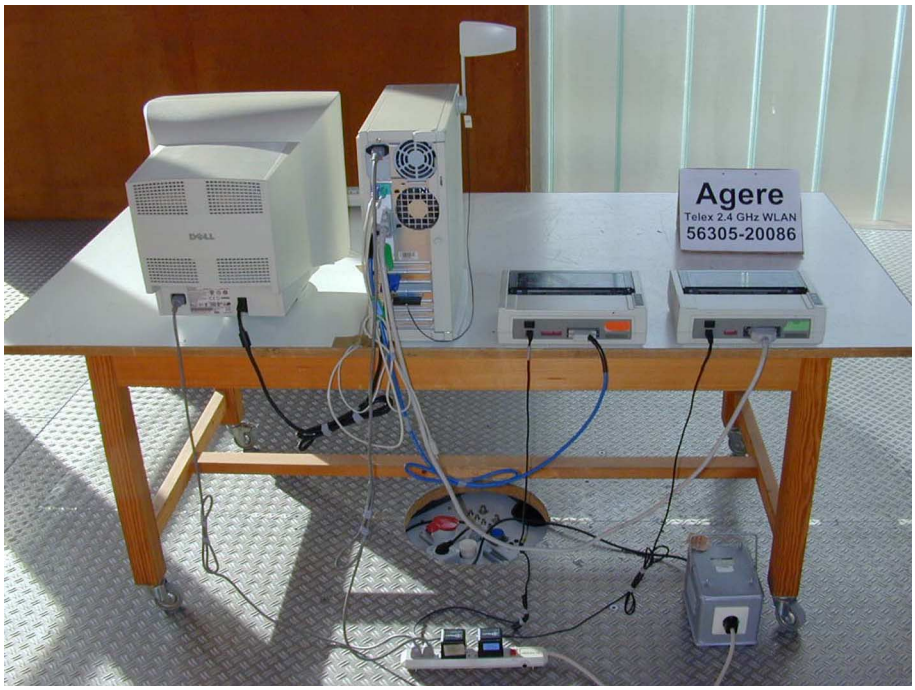
Photos No. 9.3 - 9.4

Test setup for radiated emission pre-test 30 MHz - 1 GHz (semi anechoic room) - continued



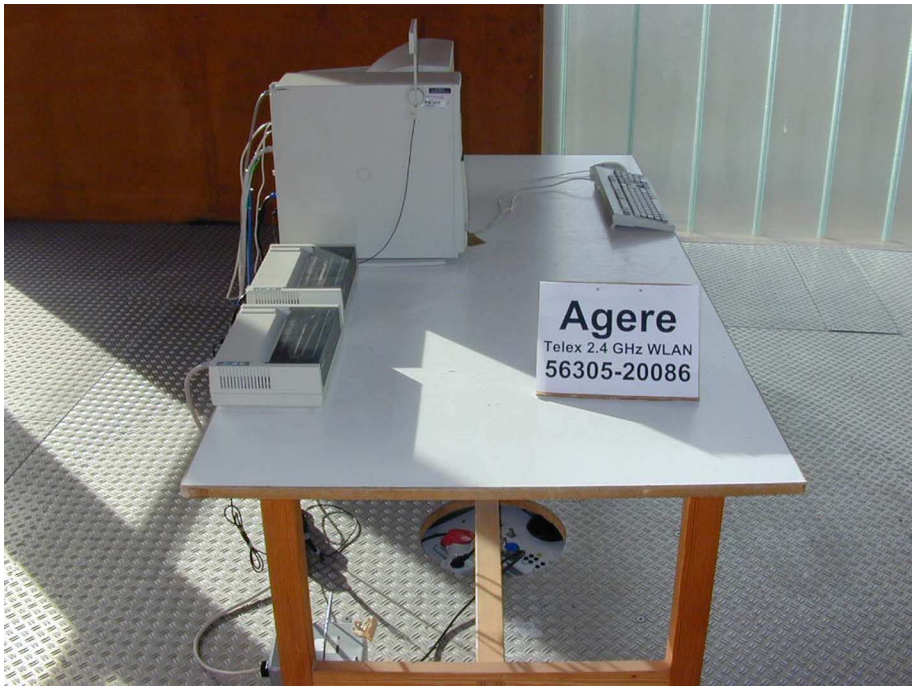
Photos No. 9.5 - 9.6

Test setup for radiated emission final test 30 MHz - 1 GHz
(open area test site)



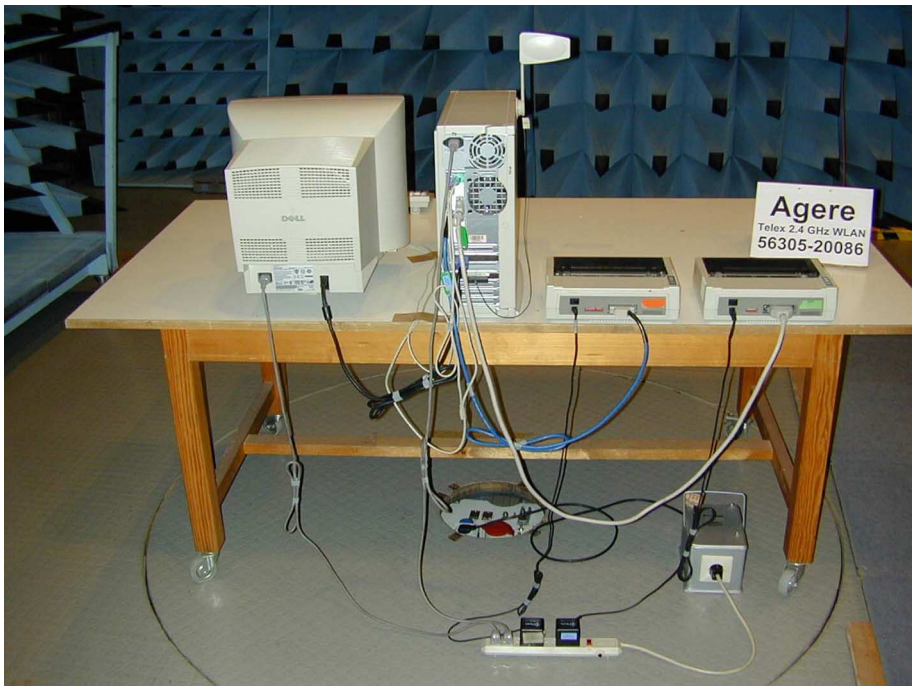
Photos No. 9.7 - 9.8

Test setup for radiated emission final test 30 MHz - 1 GHz (open area test site) - continued



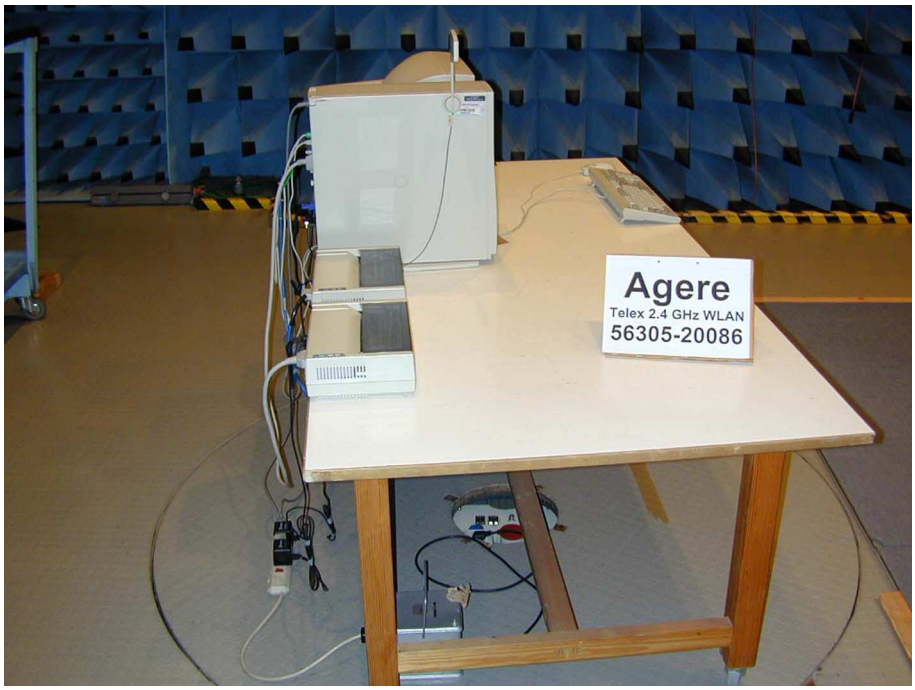
Photos No. 9.9 - 9.10

Test setup for radiated emission test above 1 GHz



Photos No. 9.11 - 9.12

Test setup for radiated emission test above 1 GHz - continued



10. List of Measurements

FCC Part 15 Subpart C			
Section(s):	**Test**	**Page**	**Result**
	Transmit mode (TX):	27	
§15.247.a2	Minimum 6 dB bandwidth	---	not performed
§15.247.b	Maximum peak output power	28	passed
§15.247.d	Peak power density	---	not performed
§15.247.e	Processing gain	---	performed by applicant
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed
§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	29 - 52	passed
§15.247.c **§15.209** **§15.205.a,b**	Radiated emission test 1 GHz - 25 GHz	53 - 104	passed
	Receive mode (RX):	105	
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	106 - 113	passed
§15.209	Radiated emission test 1 GHz - 12.5 GHz	114 - 115	passed

Note 1: Extent of testing was defined by applicant.

Note 2: Maximum peak output power was measured while either using bit rate 2, 5.5 or 11 Mbps. Radiated emission tests in transmit mode were performed with bit rate set to 11 Mbps only.
However, special care was taken to observe the difference especially in average results of TX fundamental and (even) harmonics when selecting 11 (or 5.5) Mbps on the one hand, and 2 Mbps on the other hand. Therefore additional emission tests at band edges and TX harmonics were performed with 2 Mbps.
Having less significant differences in peak results than in average levels only critical harmonics observed with 11 Mbps (i.e. with less than 10 dB margin of peak levels to average limit) had to be retested with bit rate set to 2 Mbps.

11. Test Results

Test results for

Transmit (TX) mode

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

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Date of test: 02/13/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- TX mode

Tested on: Antenna connector

Selected bit rate	Operating frequency [GHz]	Power meter reading [dBm]	Correction-factor [dB]	Output power [dBm]	Limit (see note 1) [dBm]
11 Mbps	2.412	13.9	0.2	14.1	29.5
	2.442	13.7	0.2	13.9	29.5
	2.462	13.7	0.2	13.9	29.5
5.5 Mbps	2.412	14.0	0.2	14.2	29.5
	2.442	13.8	0.2	14.0	29.5
	2.462	13.8	0.2	14.0	29.5
2 Mbps	2.412	14.0	0.2	14.2	29.5
	2.442	13.8	0.2	14.0	29.5
	2.462	13.7	0.2	13.9	29.5

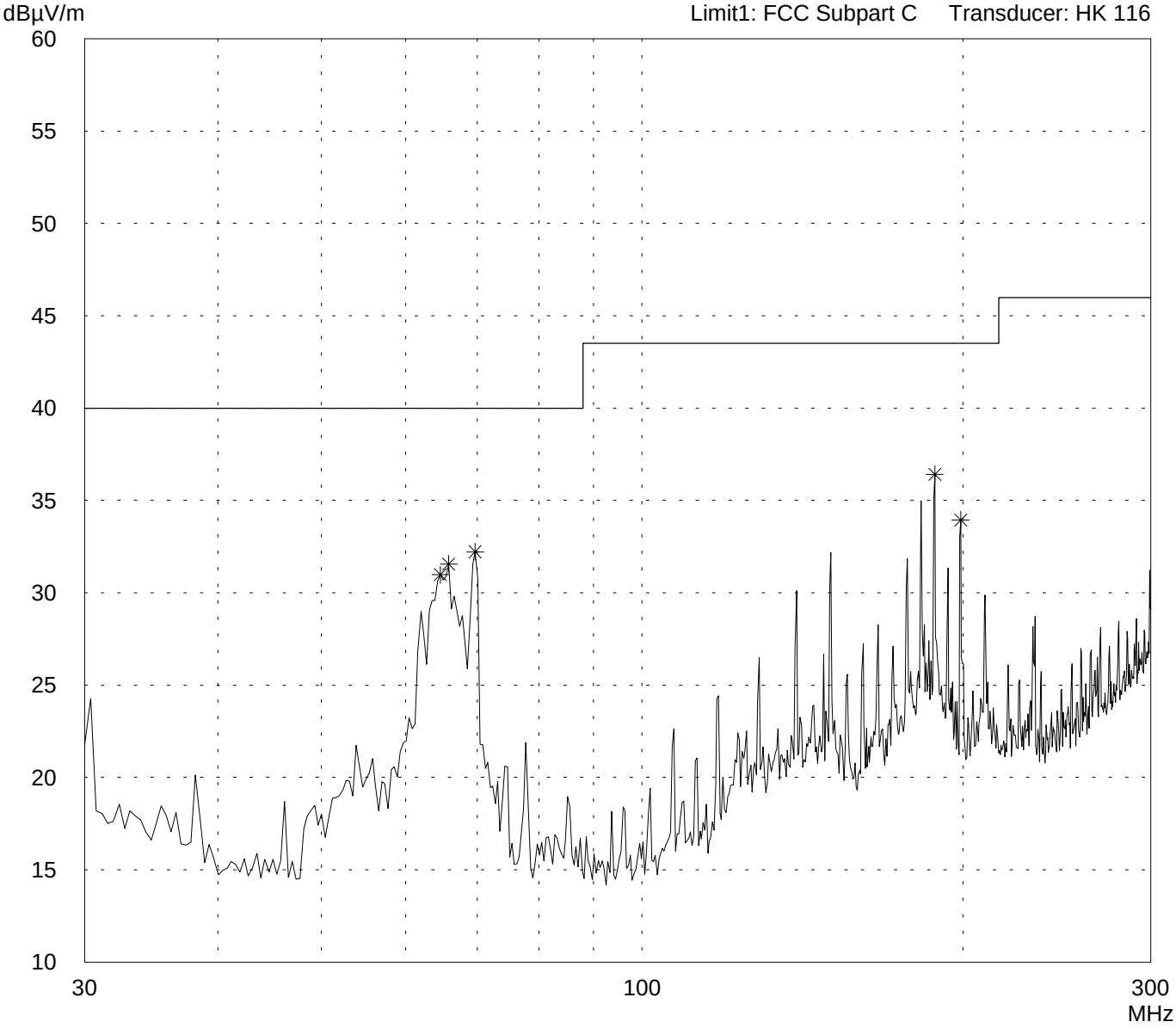
Note 1: Total nominal gain of Telex 2.4 GHz WLAN directional antenna is 6.5 dBi (including cable loss). Limit of 30 dBm is reduced by the amount of the effective antenna gain exceeding 6 dBi.
Note 2: The correction factor noted above is caused by the attenuation of the DC block. The maximum power values were recorded.
Note 3: The duty cycle of the EUT is > 99%

Result: The limit is kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/04/2002 — Operator: R. Heller	
Test performed: automatically — File name:	

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

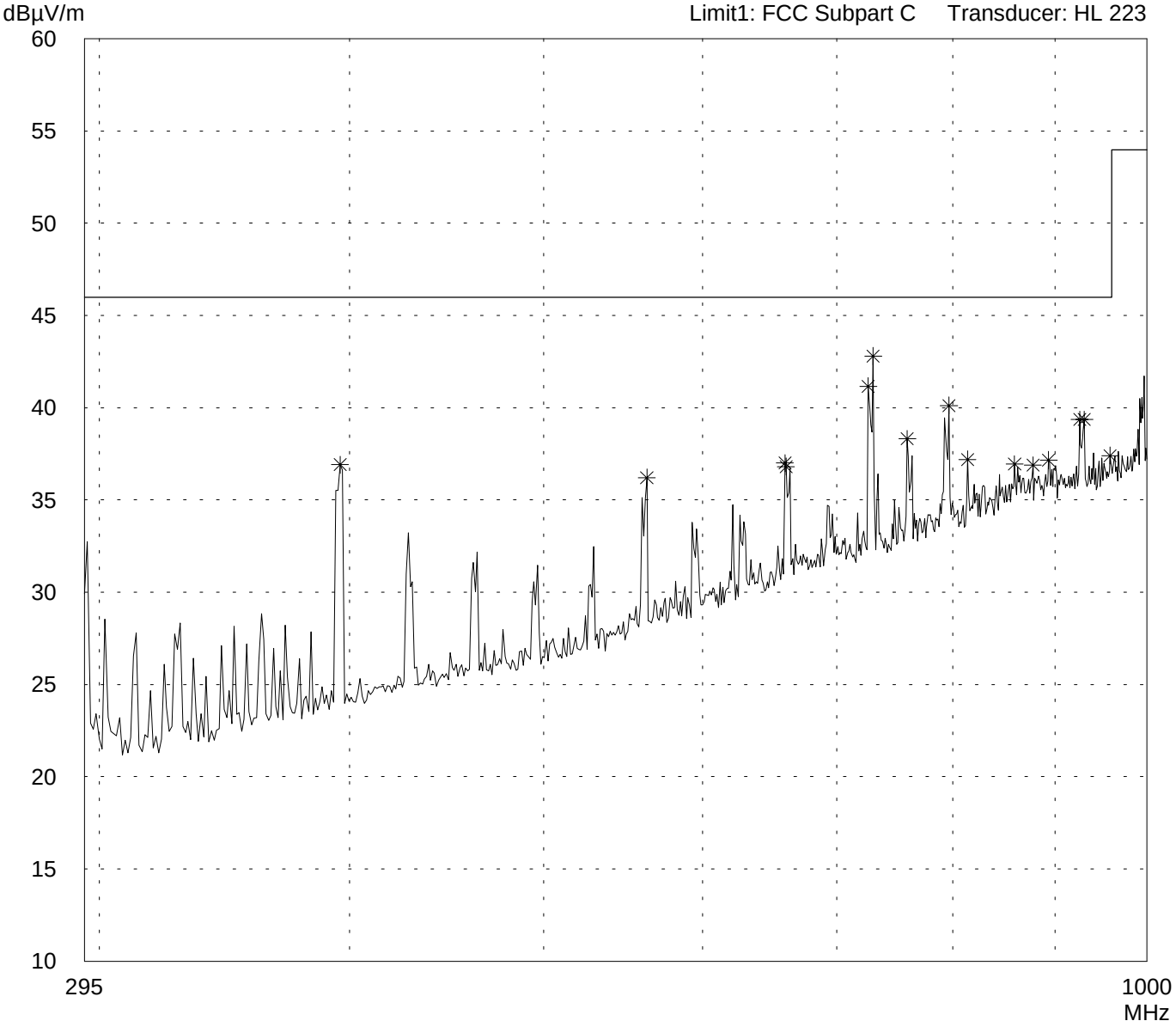


Result: Prescan	Project file: 56305-20086-1 — Page 29 of 116 Pages

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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



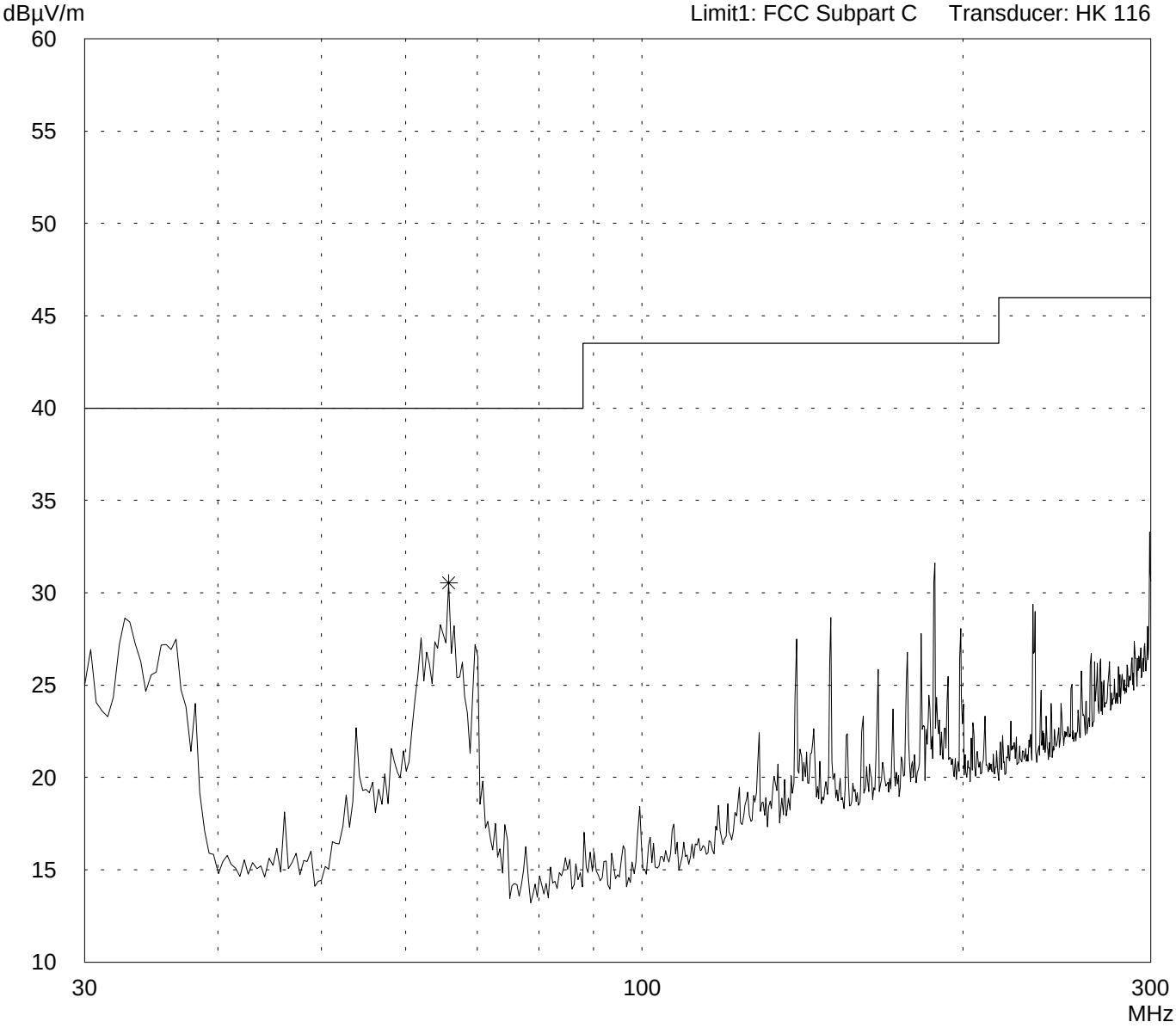
Result: Prescan	Project file: 56305-20086-1

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

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

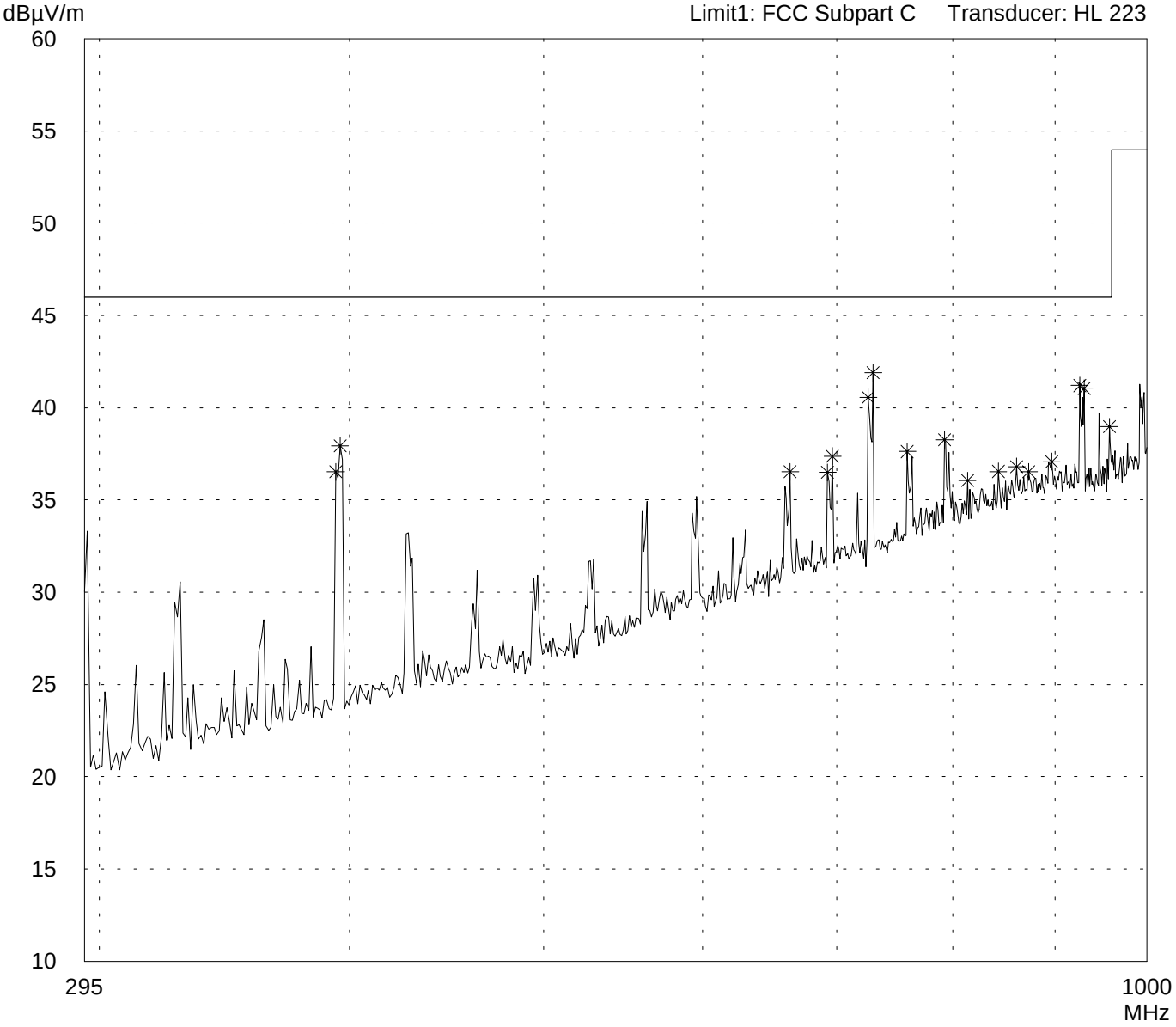


Result: Prescan	Project file: 56305-20086-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

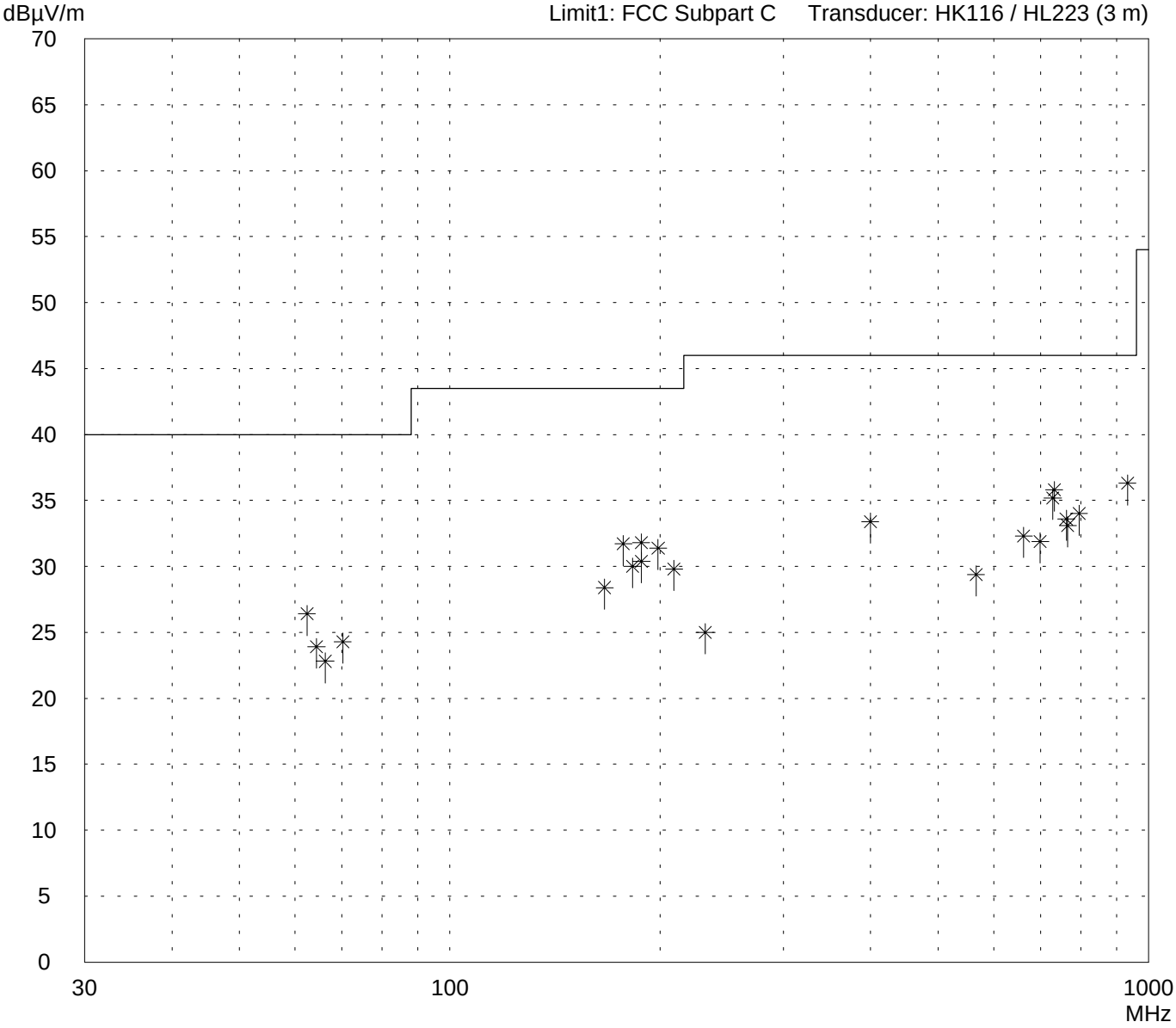


Result: Prescan	Project file: 56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/05/2002 / Operator: R. Heller	
Test performed: by hand / File name:	

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



Result: Limit kept	Project file: 56305-20086-1

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-H-FC with Telex 2.4 GHz WLAN

Serial no.:
01UT34333360 / 1202

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 02/05/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- monitor switched off

- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC

- operating with bit rate 11 Mbps

- 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*
62.43	15.5	10.9	26.4	40.0	
64.41	13.0	10.9	23.9	40.0	
66.33	12.0	10.8	22.8	40.0	
70.24	13.5	10.8	24.3	40.0	
166.51	11.5	16.9	28.4	43.5	
177.11	14.0	17.7	31.7	43.5	
182.48	12.0	18.0	30.0	43.5	
187.85	13.5	18.3	31.8	43.5	
188.03	12.0	18.4	30.4	43.5	
198.58	12.5	18.9	31.4	43.5	
209.31	10.5	19.3	29.8	43.5	
232.03	5.0	20.0	25.0	46.0	
399.66	11.0	22.4	33.4	46.0	
565.99	2.5	26.9	29.4	46.0	
662.81	2.5	29.8	32.3	46.0	
699.50	1.0	30.9	31.9	46.0	
729.08	4.0	31.2	35.2	46.0	
732.87	4.5	31.3	35.8	46.0	
762.21	2.0	31.6	33.6	46.0	
766.16	1.5	31.6	33.1	46.0	
795.27	2.0	32.0	34.0	46.0	
932.70	2.0	34.3	36.3	46.0	

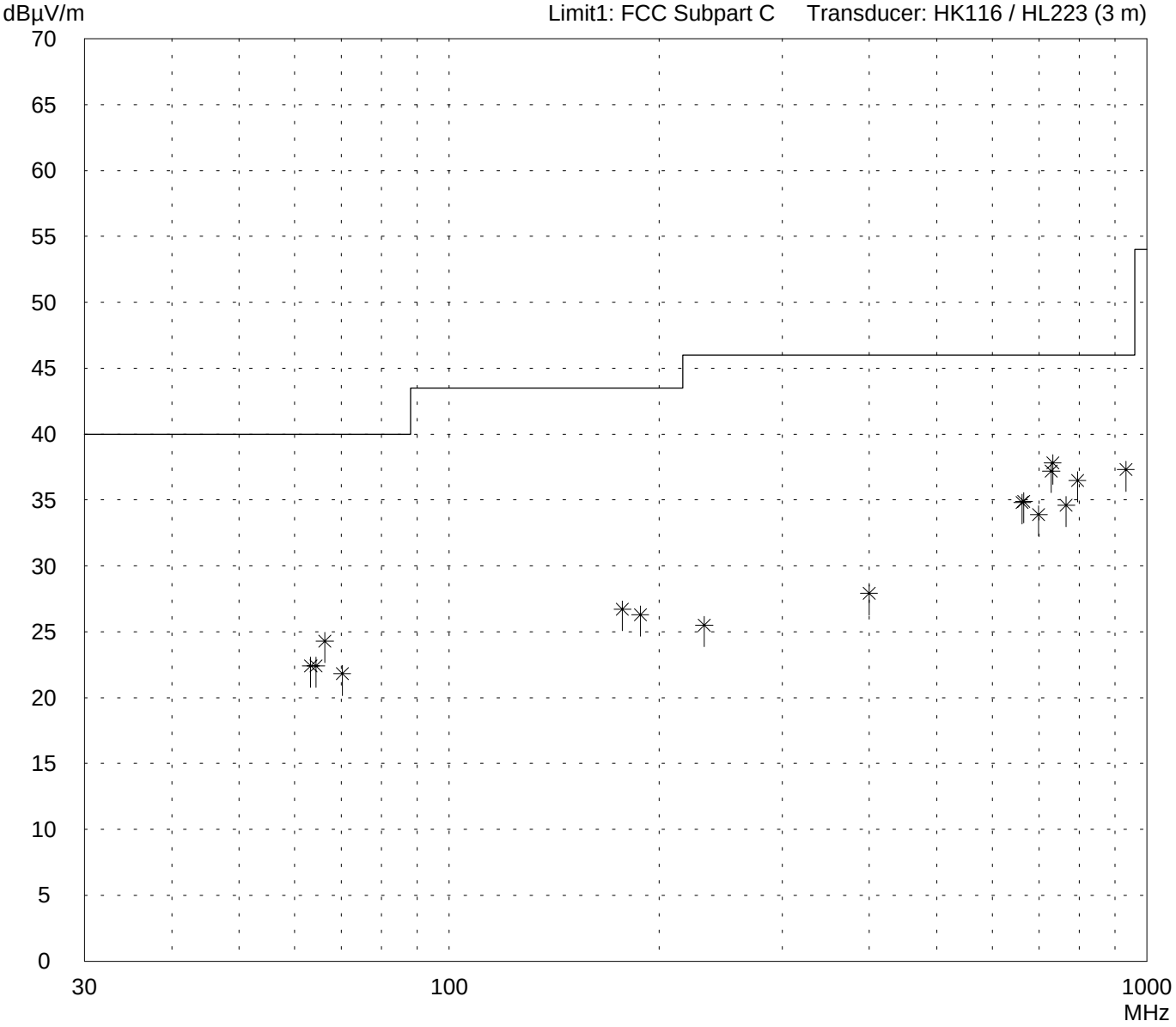
Result:
Limit kept

Project file:
56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/05/2002 / Operator: R. Heller	
Test performed: by hand / File name:	

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



Result: Limit kept	Project file: 56305-20086-1

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-H-FC with Telex 2.4 GHz WLAN

Serial no.:
01UT34333360 / 1202

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 02/05/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- monitor switched off

- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC

- operating with bit rate 11 Mbps

- 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*
63.30	11.5	10.9	22.4	40.0	
64.41	11.5	10.9	22.4	40.0	
66.33	13.5	10.8	24.3	40.0	
70.24	11.0	10.8	21.8	40.0	
177.12	9.0	17.7	26.7	43.5	
187.86	8.0	18.3	26.3	43.5	
232.03	5.5	20.0	25.5	46.0	
399.66	5.5	22.4	27.9	46.0	
662.81	5.0	29.8	34.8	46.0	
666.17	5.0	29.9	34.9	46.0	
699.50	3.0	30.9	33.9	46.0	
729.08	6.0	31.2	37.2	46.0	
732.87	6.5	31.3	37.8	46.0	
766.16	3.0	31.6	34.6	46.0	
795.27	4.5	32.0	36.5	46.0	
932.70	3.0	34.3	37.3	46.0	

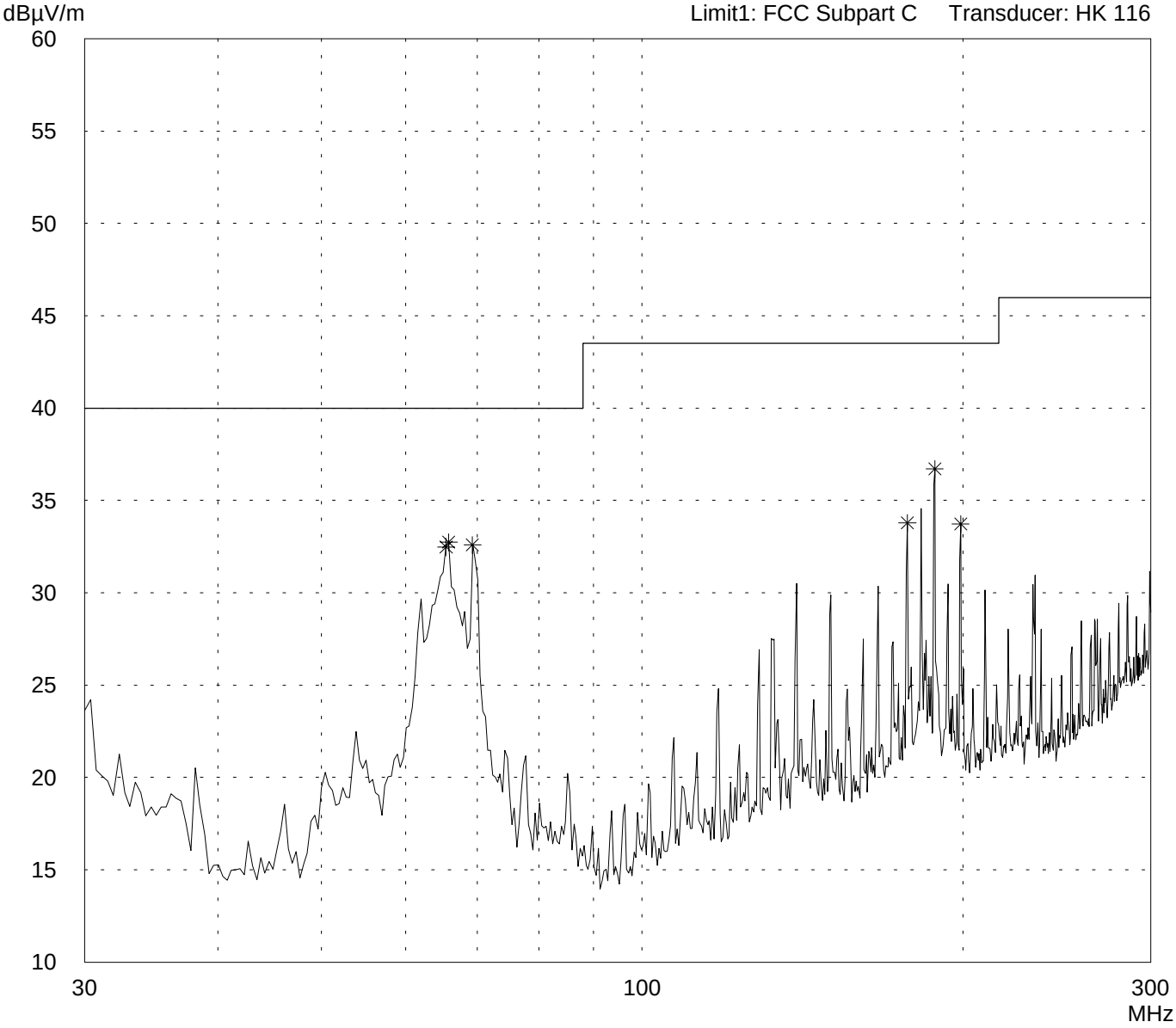
Result:
Limit kept

Project file:
56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

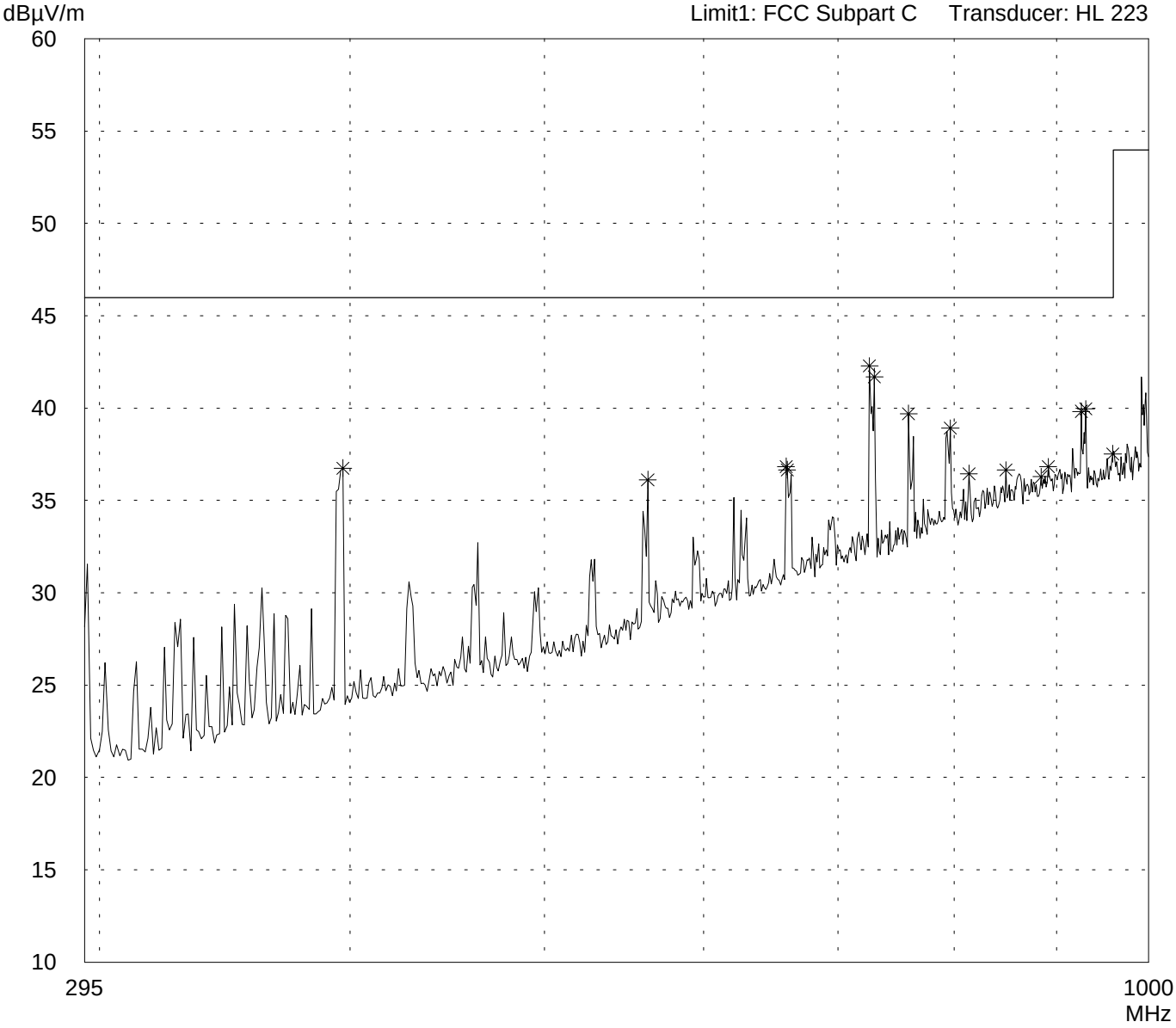


Result: Prescan	Project file: 56305-20086-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

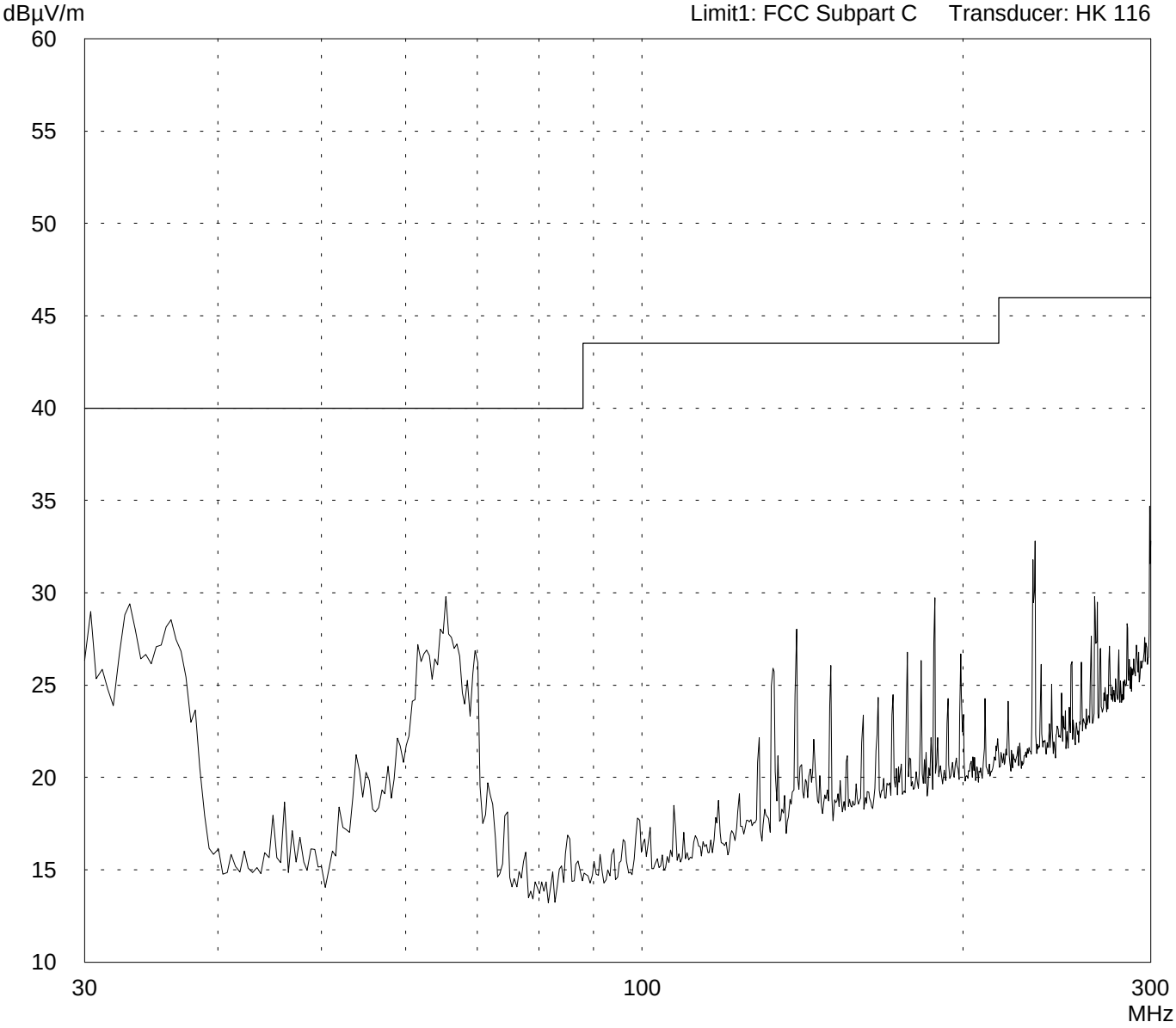


Result: Prescan	Project file: 56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

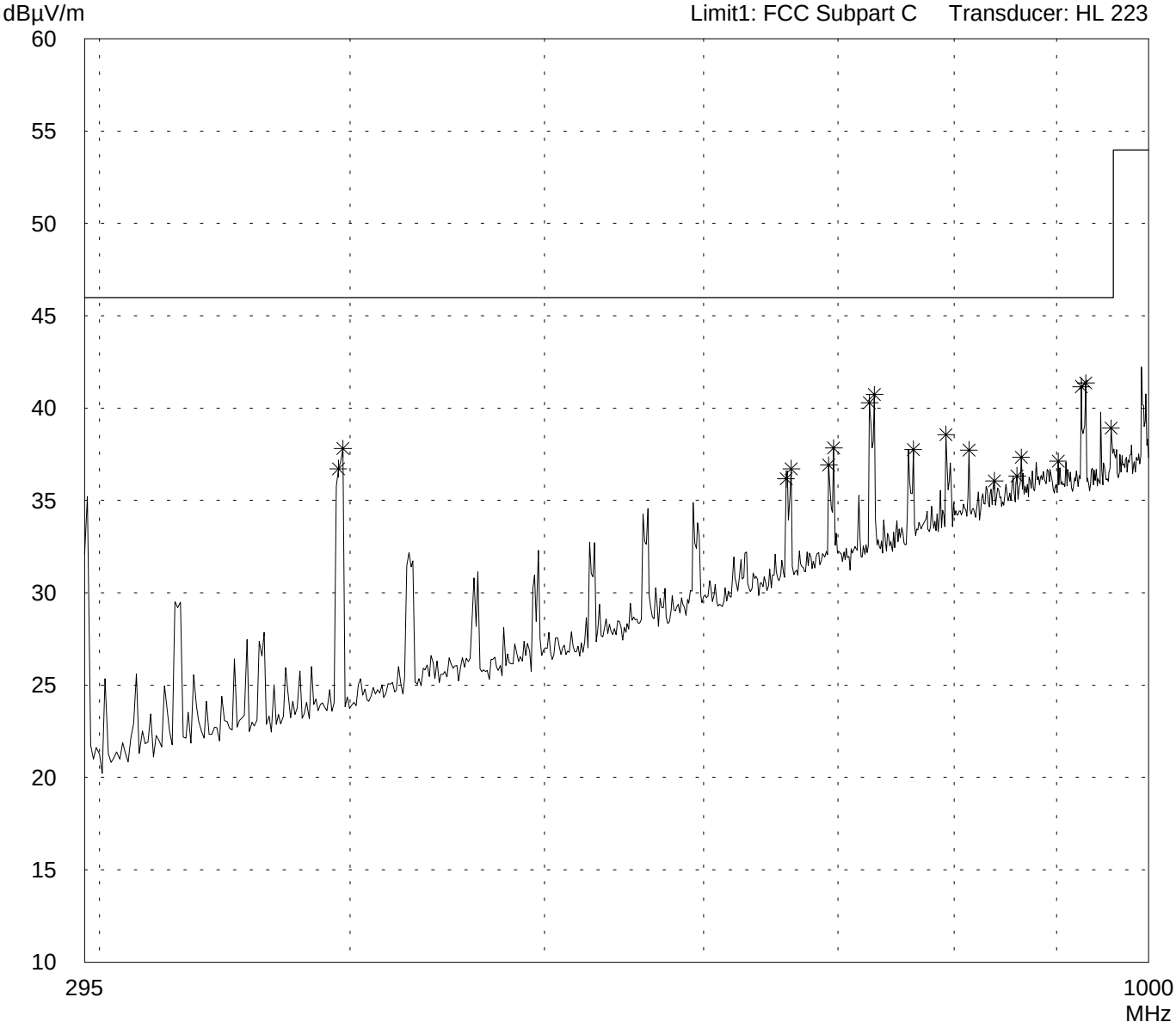


Result: Prescan	Project file: 56305-20086-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

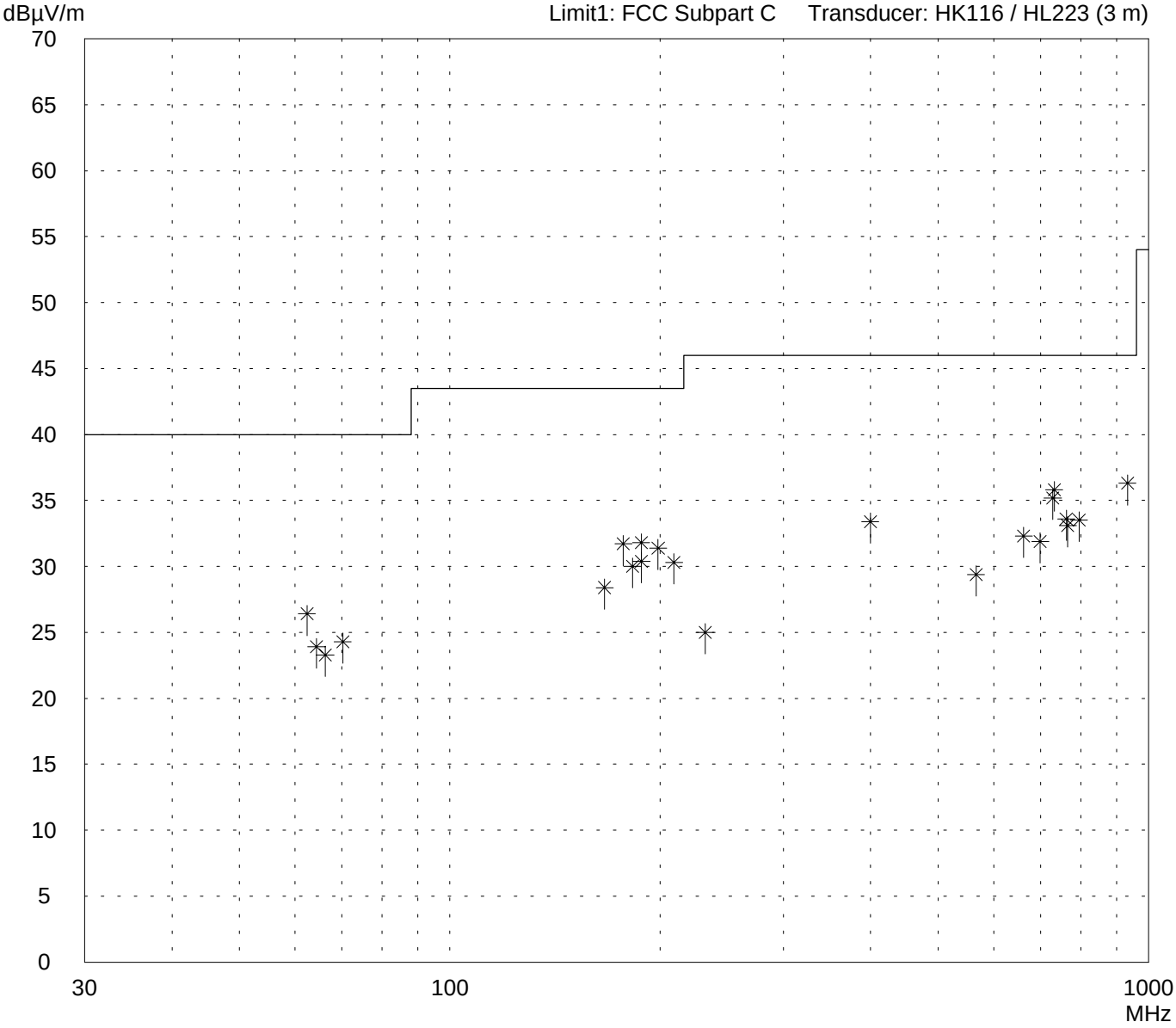


Result: Prescan	Project file: 56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/05/2002 / Operator: R. Heller	
Test performed: by hand / File name:	

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



Result: Limit kept	Project file: 56305-20086-1

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-H-FC with Telex 2.4 GHz WLAN

Serial no.:
01UT34333360 / 1202

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 02/05/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- monitor switched off

- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC

- operating with bit rate 11 Mbps

- 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*
62.43	15.5	10.9	26.4	40.0	
64.41	13.0	10.9	23.9	40.0	
66.33	12.5	10.8	23.3	40.0	
70.24	13.5	10.8	24.3	40.0	
166.51	11.5	16.9	28.4	43.5	
177.11	14.0	17.7	31.7	43.5	
182.48	12.0	18.0	30.0	43.5	
187.85	13.5	18.3	31.8	43.5	
188.03	12.0	18.4	30.4	43.5	
198.58	12.5	18.9	31.4	43.5	
209.31	11.0	19.3	30.3	43.5	
232.03	5.0	20.0	25.0	46.0	
399.66	11.0	22.4	33.4	46.0	
565.99	2.5	26.9	29.4	46.0	
662.81	2.5	29.8	32.3	46.0	
699.50	1.0	30.9	31.9	46.0	
729.08	4.0	31.2	35.2	46.0	
732.87	4.5	31.3	35.8	46.0	
762.21	2.0	31.6	33.6	46.0	
766.16	1.5	31.6	33.1	46.0	
795.27	1.5	32.0	33.5	46.0	
932.70	2.0	34.3	36.3	46.0	

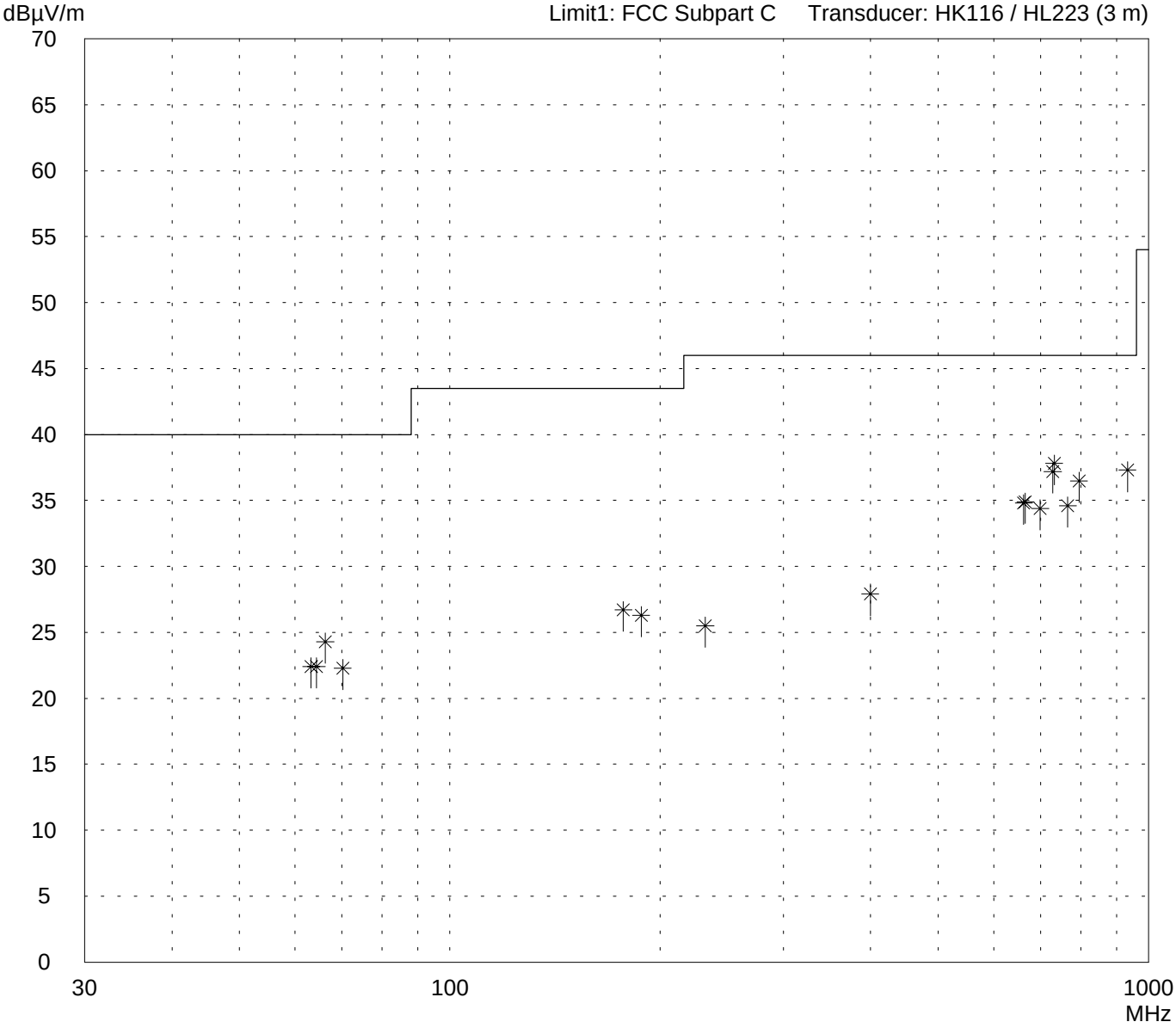
Result:
Limit kept

Project file:
56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/05/2002 / Operator: R. Heller	
Test performed: by hand / File name:	

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



Result: Limit kept	Project file: 56305-20086-1

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-H-FC with Telex 2.4 GHz WLAN

Serial no.:
01UT34333360 / 1202

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 02/05/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- monitor switched off

- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC

- operating with bit rate 11 Mbps

- 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*
63.30	11.5	10.9	22.4	40.0	
64.41	11.5	10.9	22.4	40.0	
66.33	13.5	10.8	24.3	40.0	
70.24	11.5	10.8	22.3	40.0	
177.12	9.0	17.7	26.7	43.5	
187.86	8.0	18.3	26.3	43.5	
232.03	5.5	20.0	25.5	46.0	
399.66	5.5	22.4	27.9	46.0	
662.81	5.0	29.8	34.8	46.0	
666.17	5.0	29.9	34.9	46.0	
699.50	3.5	30.9	34.4	46.0	
729.08	6.0	31.2	37.2	46.0	
732.87	6.5	31.3	37.8	46.0	
766.16	3.0	31.6	34.6	46.0	
795.27	4.5	32.0	36.5	46.0	
932.70	3.0	34.3	37.3	46.0	

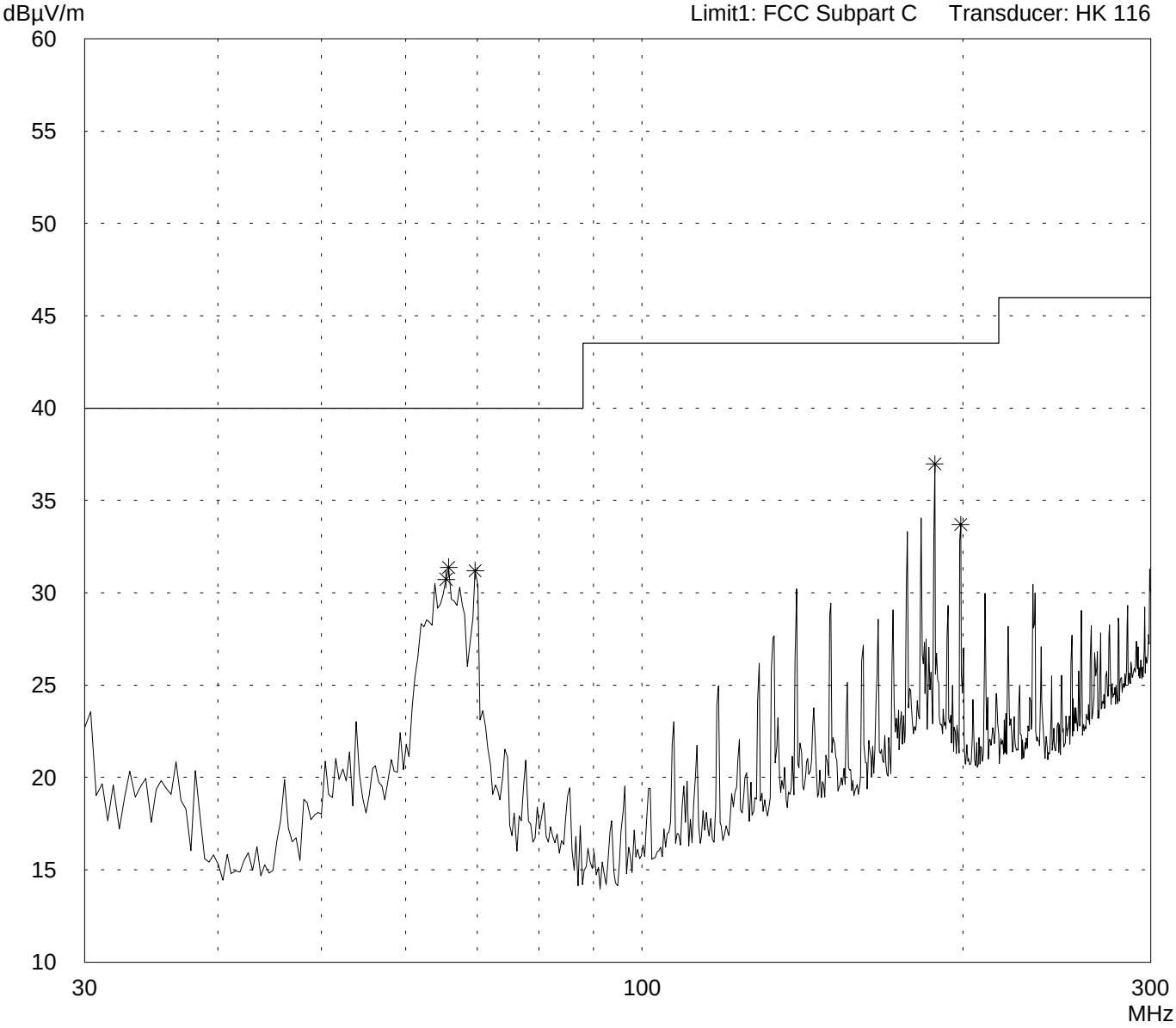
Result:
Limit kept

Project file:
56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

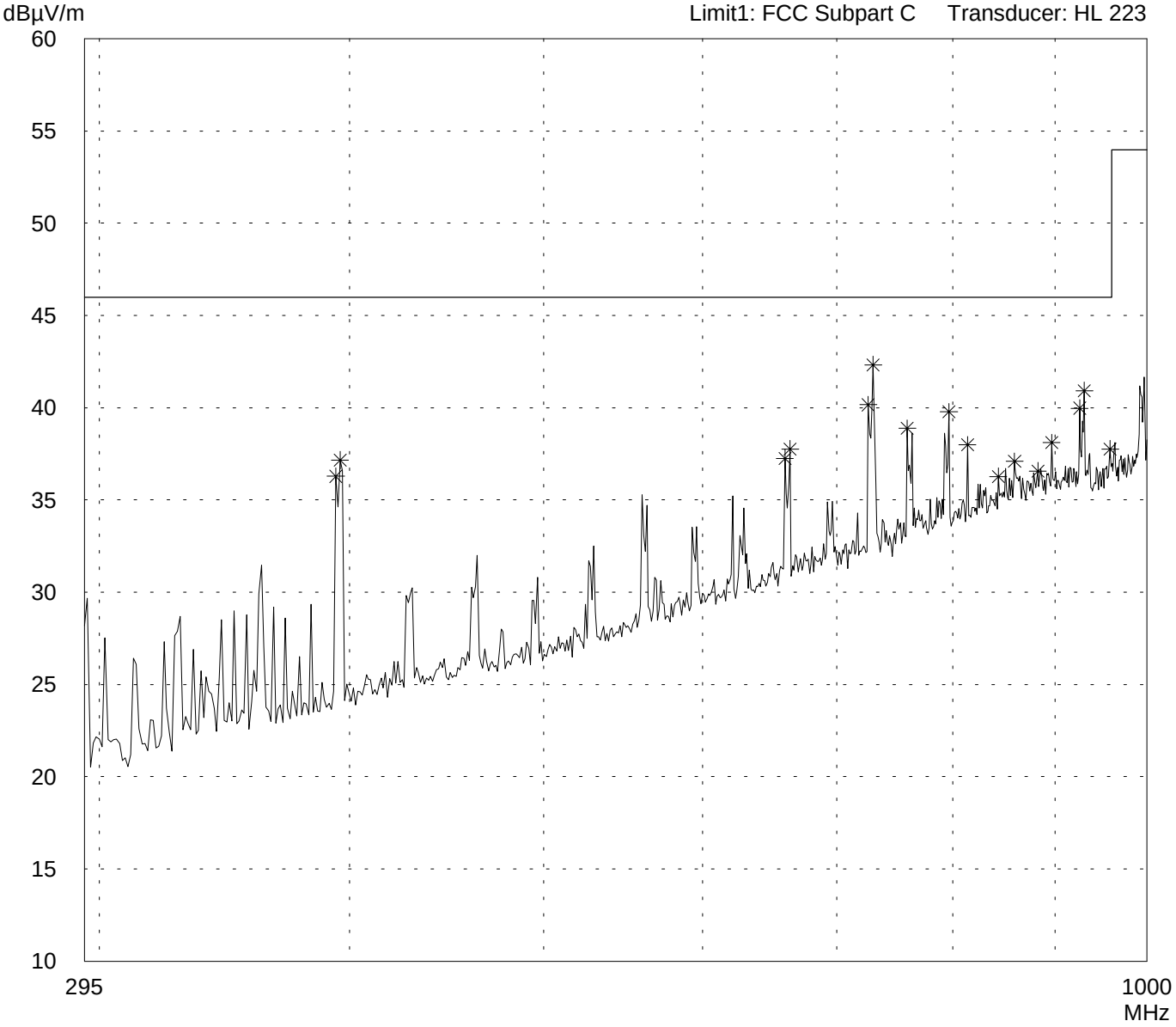


Result: Prescan	Project file: 56305-20086-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

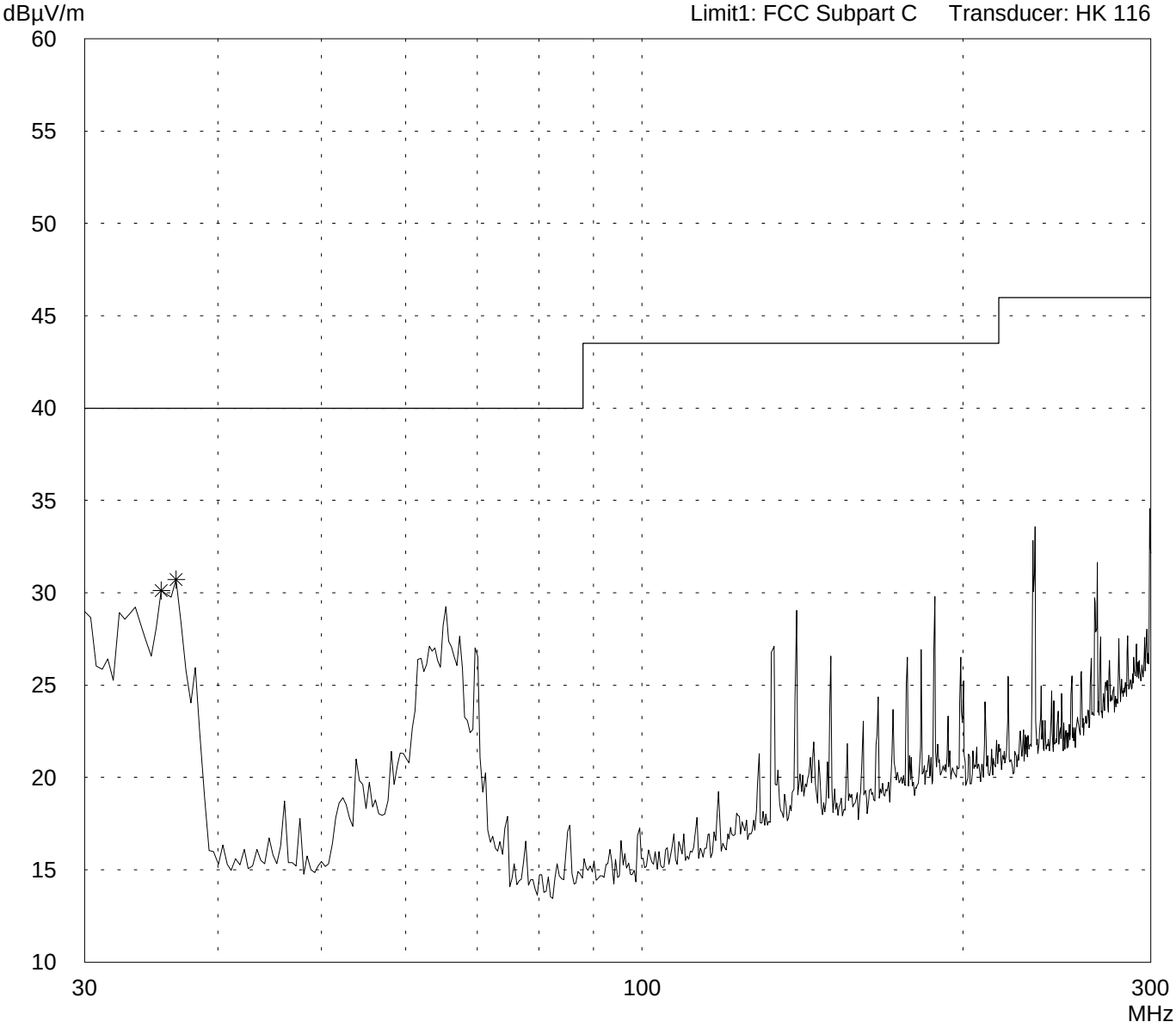


Result: Prescan	Project file: 56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

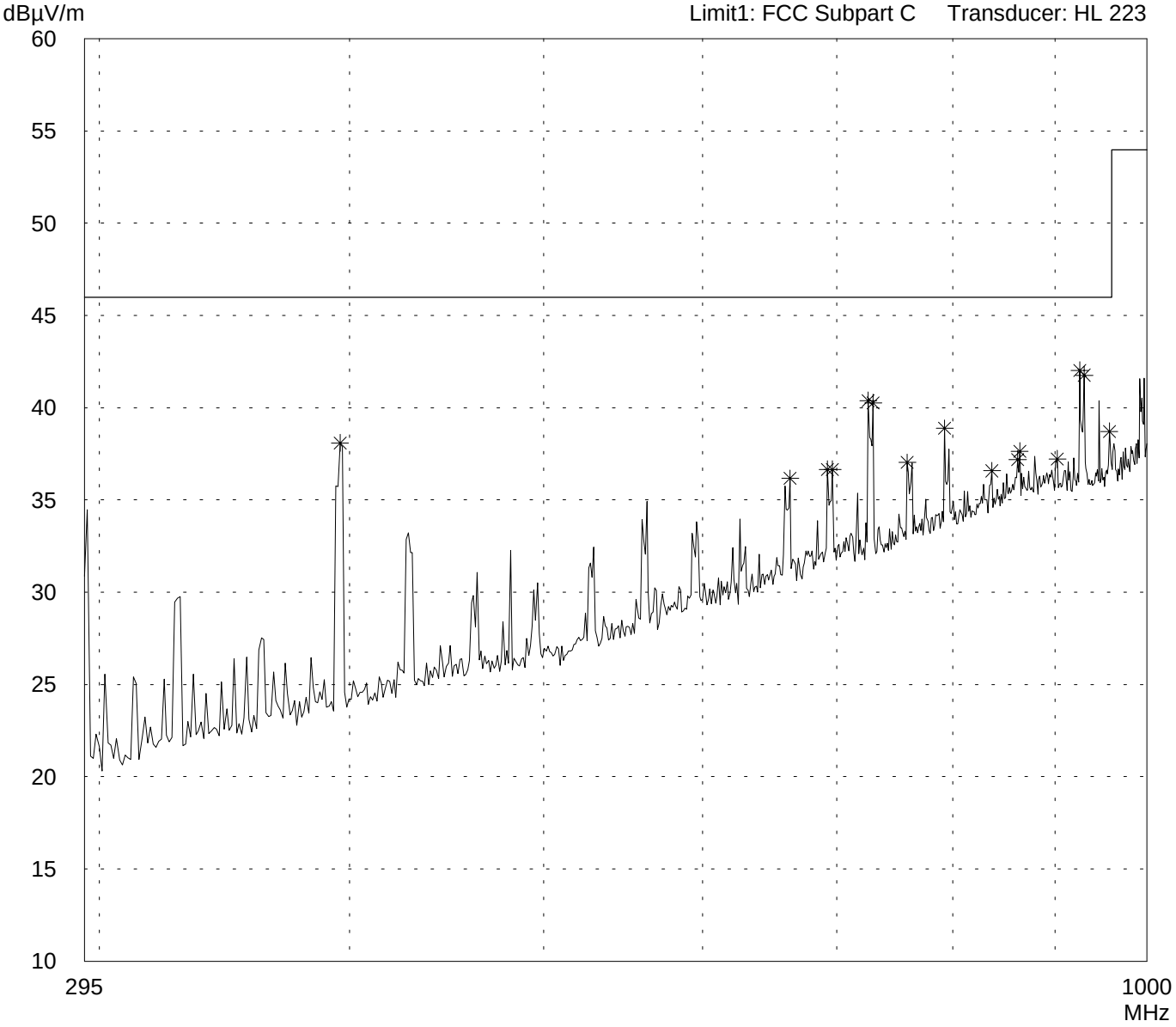


Result: Prescan	Project file: 56305-20086-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

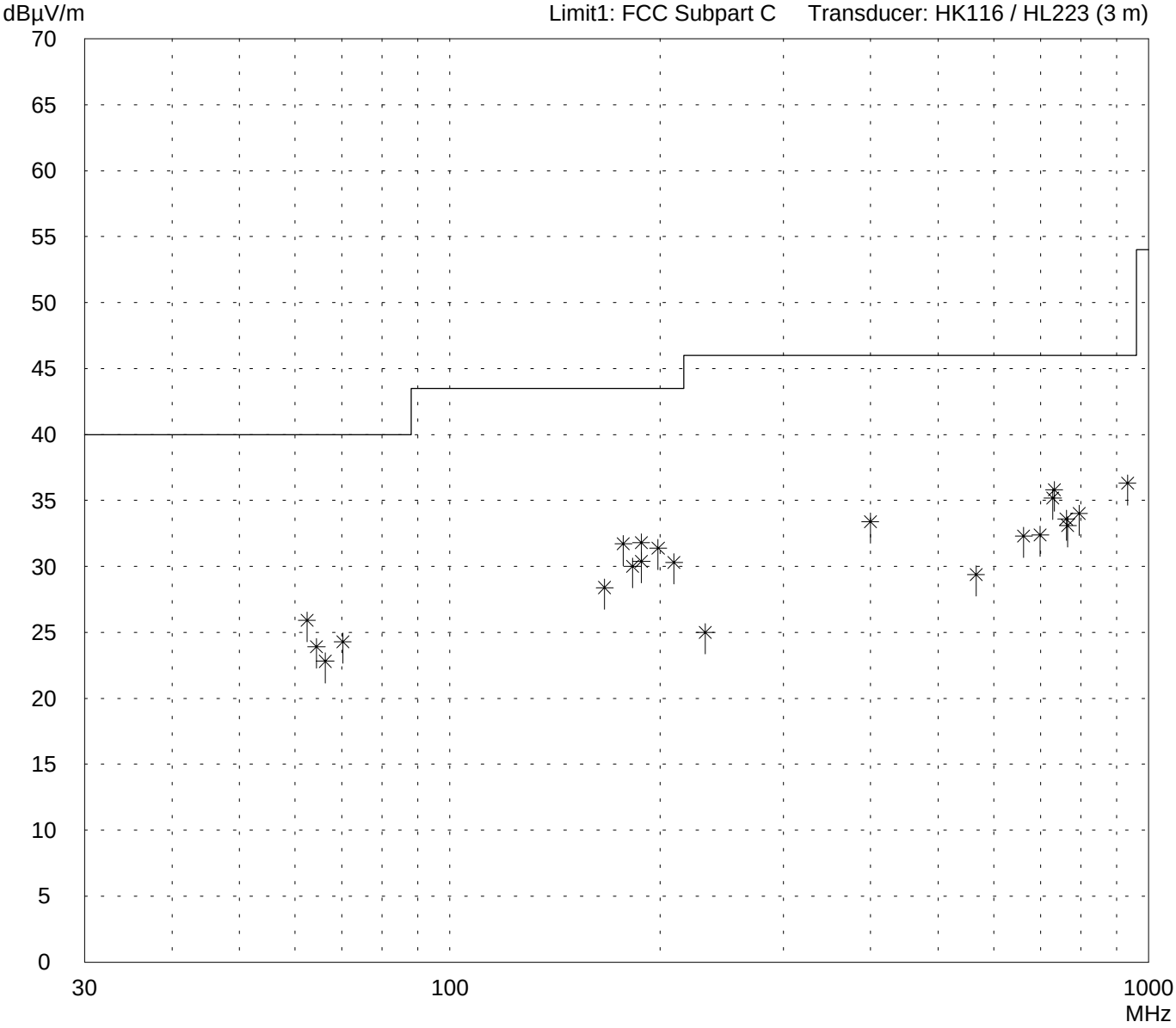


Result: Prescan	Project file: 56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/05/2002 / Operator: R. Heller	
Test performed: by hand / File name:	

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



Result: Limit kept	Project file: 56305-20086-1

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-H-FC with Telex 2.4 GHz WLAN

Serial no.:
01UT34333360 / 1202

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 02/05/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- monitor switched off

- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC

- operating with bit rate 11 Mbps

- 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*
62.43	15.0	10.9	25.9	40.0	
64.41	13.0	10.9	23.9	40.0	
66.33	12.0	10.8	22.8	40.0	
70.24	13.5	10.8	24.3	40.0	
166.51	11.5	16.9	28.4	43.5	
177.11	14.0	17.7	31.7	43.5	
182.48	12.0	18.0	30.0	43.5	
187.85	13.5	18.3	31.8	43.5	
188.03	12.0	18.4	30.4	43.5	
198.58	12.5	18.9	31.4	43.5	
209.31	11.0	19.3	30.3	43.5	
232.03	5.0	20.0	25.0	46.0	
399.66	11.0	22.4	33.4	46.0	
565.99	2.5	26.9	29.4	46.0	
662.81	2.5	29.8	32.3	46.0	
699.50	1.5	30.9	32.4	46.0	
729.08	4.0	31.2	35.2	46.0	
732.87	4.5	31.3	35.8	46.0	
762.21	2.0	31.6	33.6	46.0	
766.16	1.5	31.6	33.1	46.0	
795.27	2.0	32.0	34.0	46.0	
932.70	2.0	34.3	36.3	46.0	

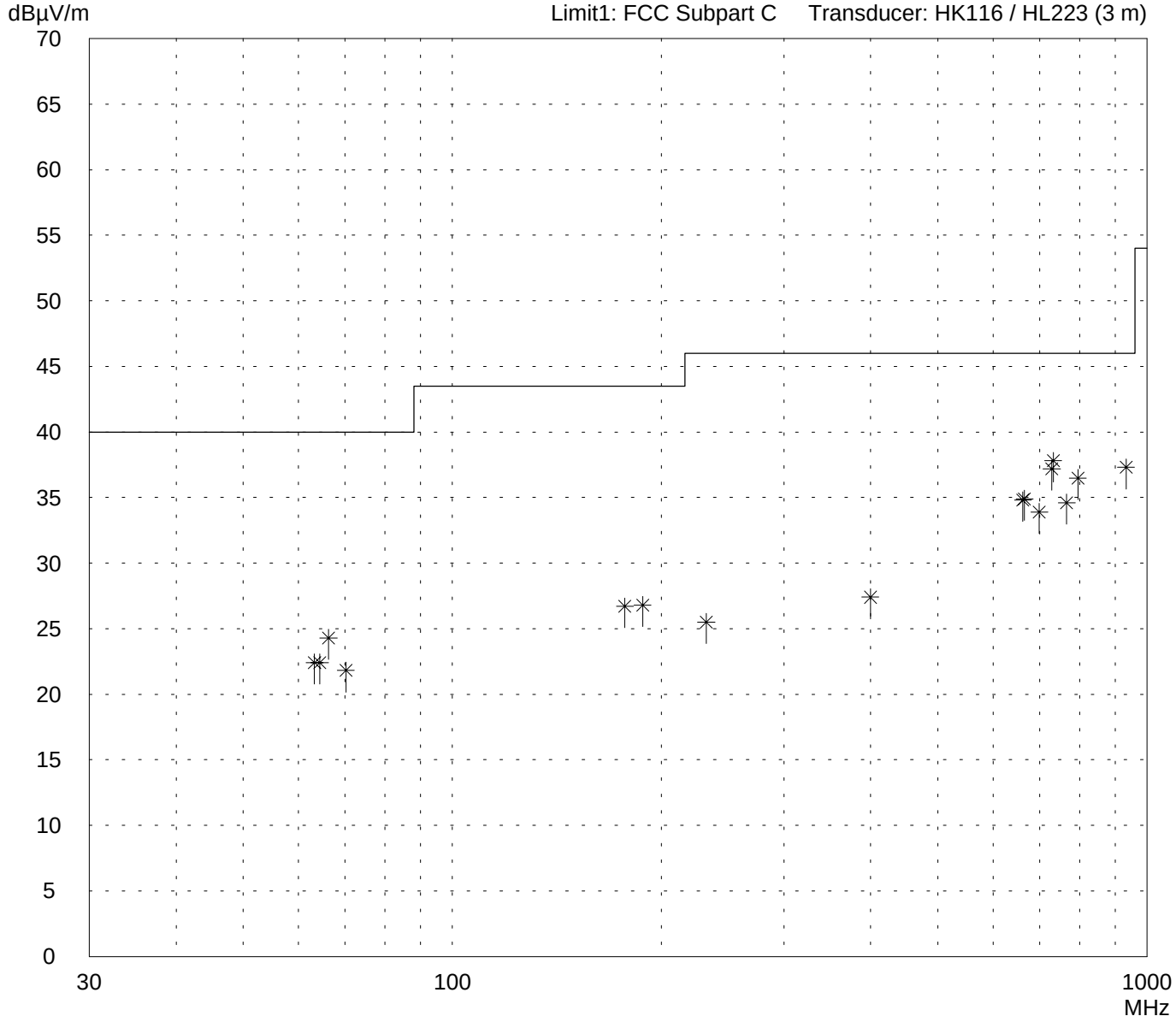
Result:
Limit kept

Project file:
56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/05/2002 / Operator: R. Heller	
Test performed: by hand / File name:	

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



Result: Limit kept	Project file: 56305-20086-1

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

Model:
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:
01UT34333360 / 1202

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 02/05/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- monitor switched off

- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC

- operating with bit rate 11 Mbps

- 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*
63.30	11.5	10.9	22.4	40.0	
64.41	11.5	10.9	22.4	40.0	
66.33	13.5	10.8	24.3	40.0	
70.24	11.0	10.8	21.8	40.0	
177.12	9.0	17.7	26.7	43.5	
187.86	8.5	18.3	26.8	43.5	
232.03	5.5	20.0	25.5	46.0	
399.66	5.0	22.4	27.4	46.0	
662.81	5.0	29.8	34.8	46.0	
666.17	5.0	29.9	34.9	46.0	
699.50	3.0	30.9	33.9	46.0	
729.08	6.0	31.2	37.2	46.0	
732.87	6.5	31.3	37.8	46.0	
766.16	3.0	31.6	34.6	46.0	
795.27	4.5	32.0	36.5	46.0	
932.70	3.0	34.3	37.3	46.0	

Result:
Limit kept

Project file:
56305-20086-1

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with f = 2.412 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	39.1	0.6	20.7	60.4	74
2.3988	vertical	49.3	0.6	20.7	70.6	NRB
2.4000	vertical	48.7	0.6	20.7	70.0	NRB
2.4023	vertical	51.5	0.6	20.7	72.9	NRB
2.4127	vertical	91.1	0.6	20.7	112.4	OB
2.4247	vertical	52.2	0.6	20.7	73.5	OB
2.7950	horizontal	21.7	0.7	23.7	46.0	74
2.9270	vertical	20.1	0.7	23.7	44.4	74
3.0650	vertical	19.5	0.7	23.7	43.9	74
4.8303	vertical	17.0	0.9	27.3	45.1	74
7.2391	vertical	17.9	1.1	29.9	48.9	NRB
9.6467	vertical	10.9	1.3	33.4	45.6	NRB

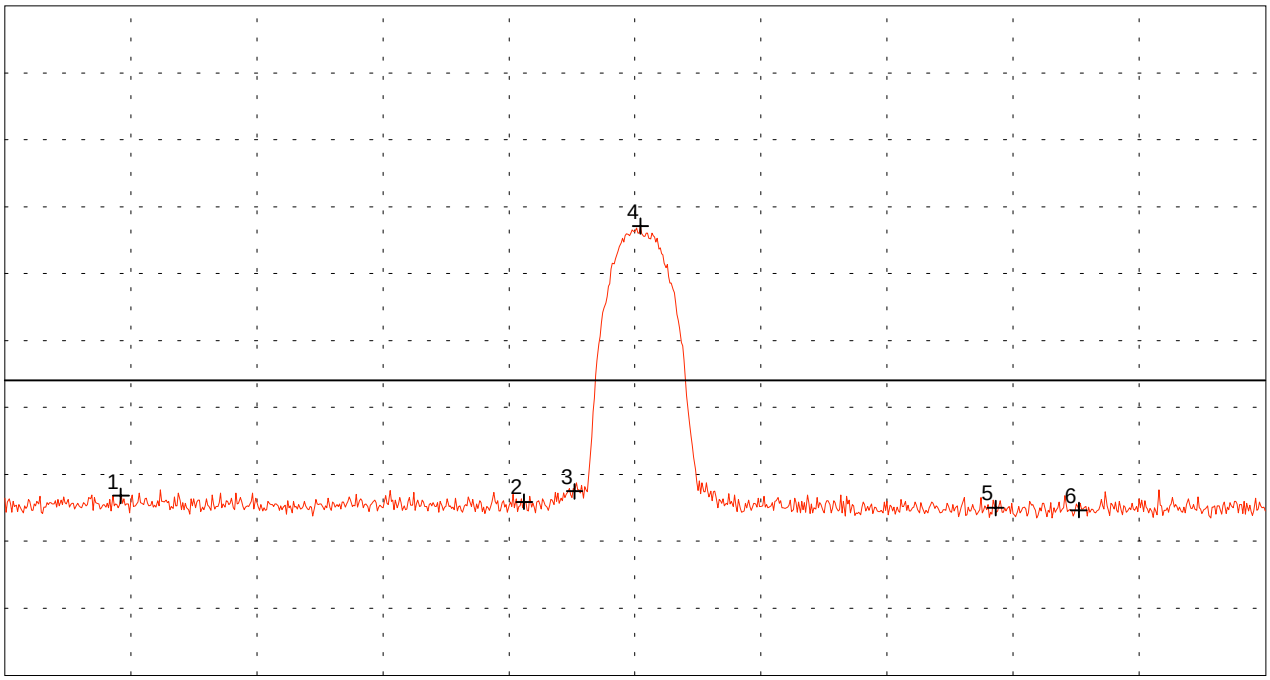
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 112.4 dBµV/m.

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.287 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

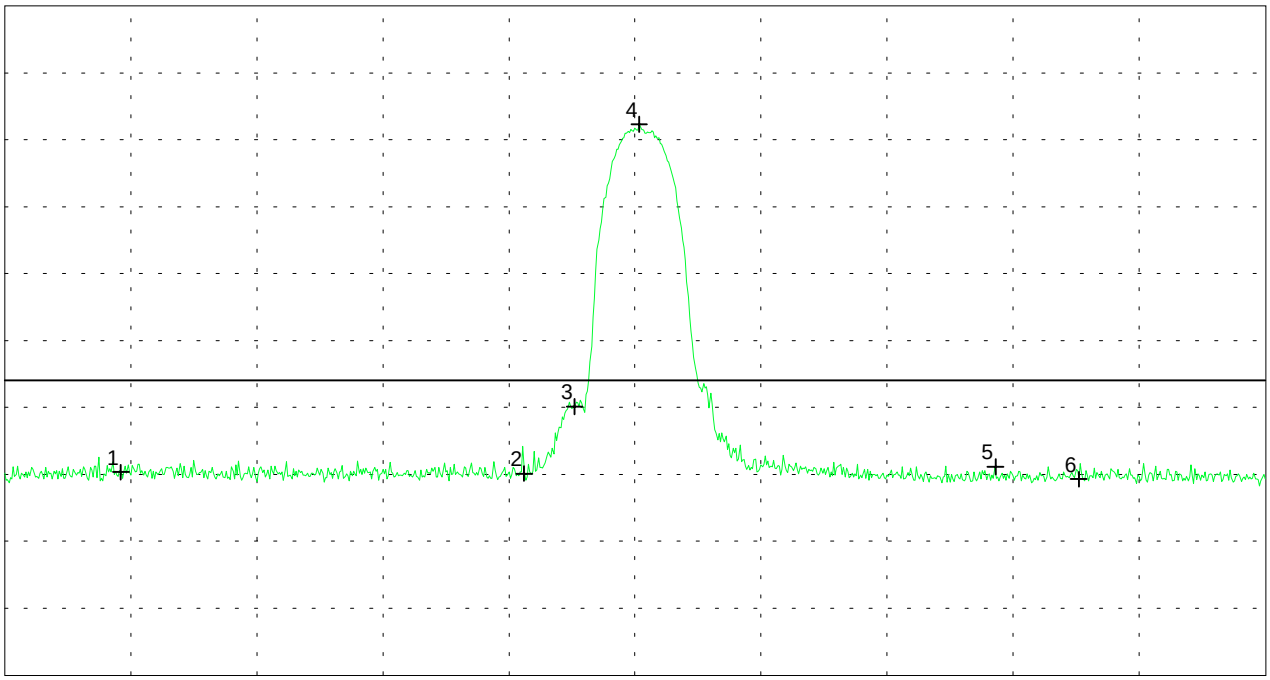
No. 1	2.310000 GHz	56.78 dBµV/m
No. 2	2.390000 GHz	55.87 dBµV/m
No. 3	2.400000 GHz	57.44 dBµV/m
No. 4	2.413111 GHz	97.11 dBµV/m
No. 5	2.483500 GHz	54.98 dBµV/m
No. 6	2.500000 GHz	54.62 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.287 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

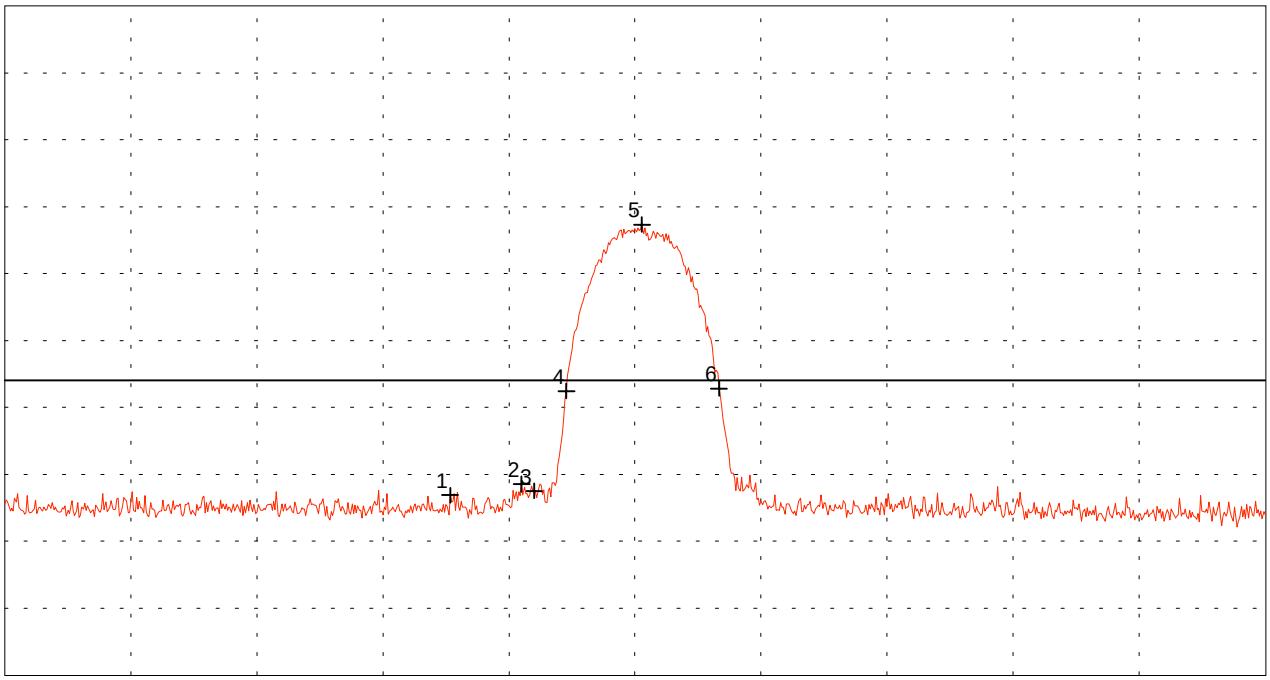
No. 1	2.310000 GHz	60.30 dBµV/m
No. 2	2.390000 GHz	60.08 dBµV/m
No. 3	2.400000 GHz	70.11 dBµV/m
No. 4	2.412833 GHz	112.31 dBµV/m
No. 5	2.483500 GHz	61.12 dBµV/m
No. 6	2.500000 GHz	59.26 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



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

Multi Marker List

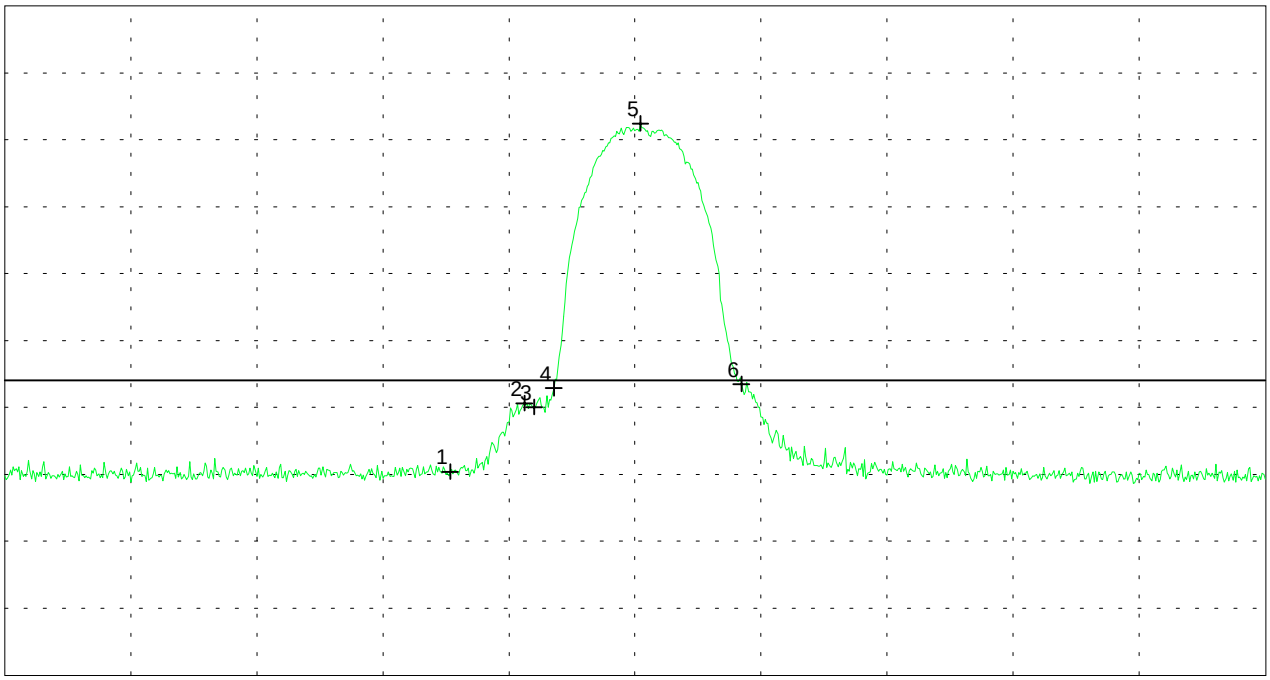
No. 1	2.390000 GHz	56.86 dBµV/m
No. 2	2.398500 GHz	58.53 dBµV/m
No. 3	2.400000 GHz	57.49 dBµV/m
No. 4	2.403833 GHz	72.45 dBµV/m
No. 5	2.412833 GHz	97.31 dBµV/m
No. 6	2.422000 GHz	72.83 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	Page 56 of 116 Pages

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



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

Multi Marker List

No. 1	2.390000 GHz	60.36 dBµV/m
No. 2	2.398833 GHz	70.64 dBµV/m
No. 3	2.400000 GHz	70.03 dBµV/m
No. 4	2.402333 GHz	72.85 dBµV/m
No. 5	2.412667 GHz	112.44 dBµV/m
No. 6	2.424667 GHz	73.48 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with f = 2.412 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	25.6	0.6	20.7	46.9	54
2.3958	vertical	32.7	0.6	20.7	54.0	NRB
2.3993	vertical	39.6	0.6	20.7	60.9	NRB
2.4000	vertical	38.8	0.6	20.7	60.1	NRB
2.4118	vertical	84.9	0.6	20.7	106.2	OB
2.4277	vertical	32.4	0.6	20.7	53.7	OB
2.7980	vertical	< 12.5	0.7	23.7	< 36.9	54
2.9285	vertical	< 10.6	0.7	23.7	< 35.0	54
3.0650	vertical	< 10.4	0.7	23.7	< 34.8	54
4.8235	vertical	10.3	0.9	27.3	38.5	54
7.2386	vertical	9.2	1.1	29.9	40.2	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 106.2 dBµV/m.

Result: The limits are kept

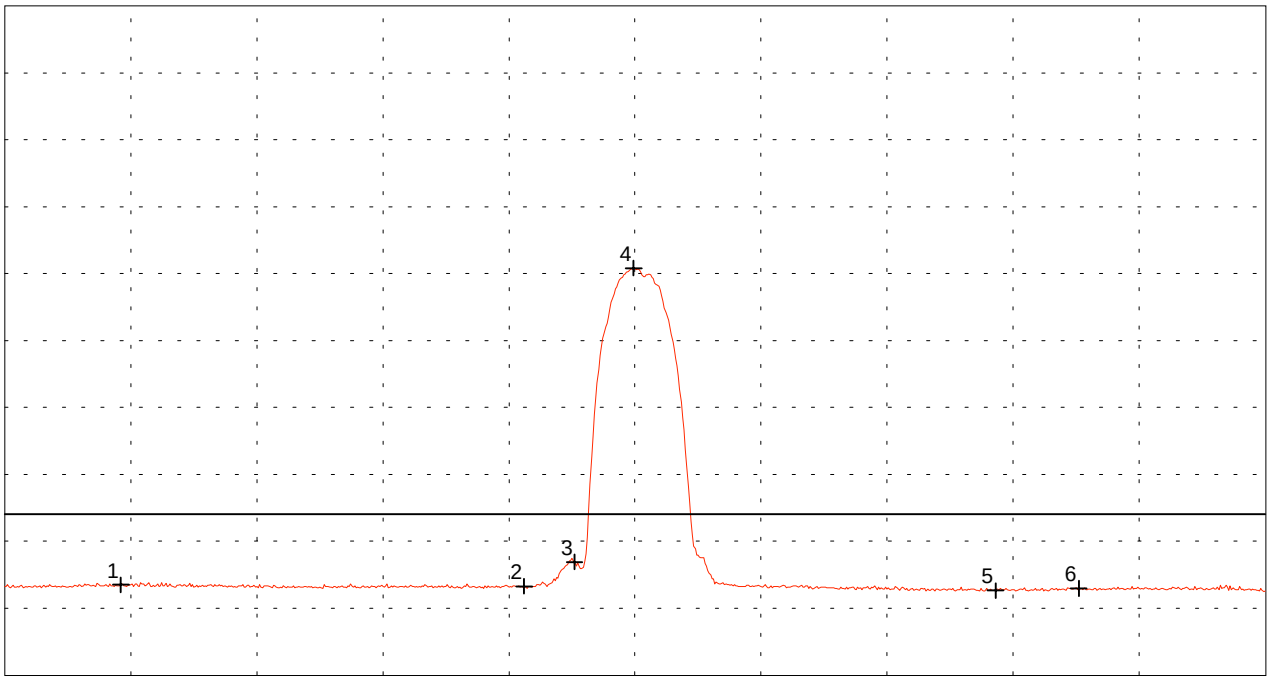
Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.537 GHz
SWP 260 ms

Multi Marker List

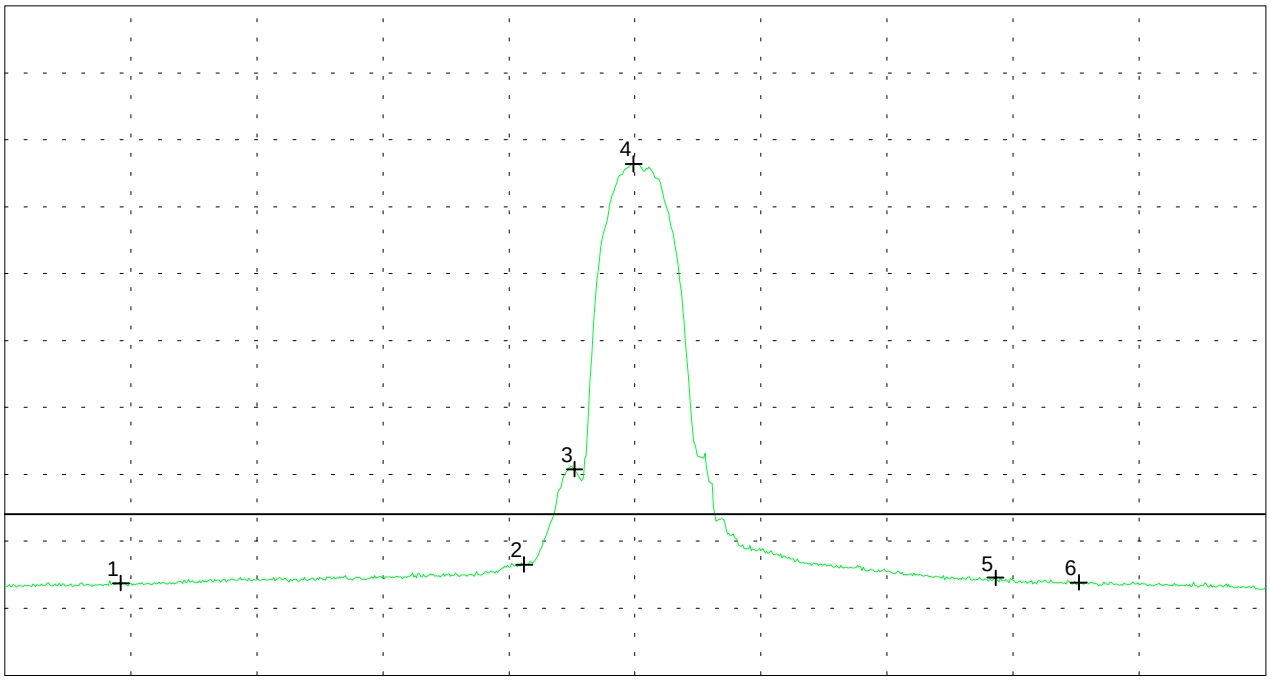
No. 1	2.310000 GHz	43.47 dBµV/m
No. 2	2.390000 GHz	43.27 dBµV/m
No. 3	2.400000 GHz	46.90 dBµV/m
No. 4	2.411722 GHz	90.81 dBµV/m
No. 5	2.483500 GHz	42.61 dBµV/m
No. 6	2.500000 GHz	42.94 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.287 GHz Stop 2.537 GHz
RBW 1 MHz VBW 3 kHz SWP 260 ms

Multi Marker List

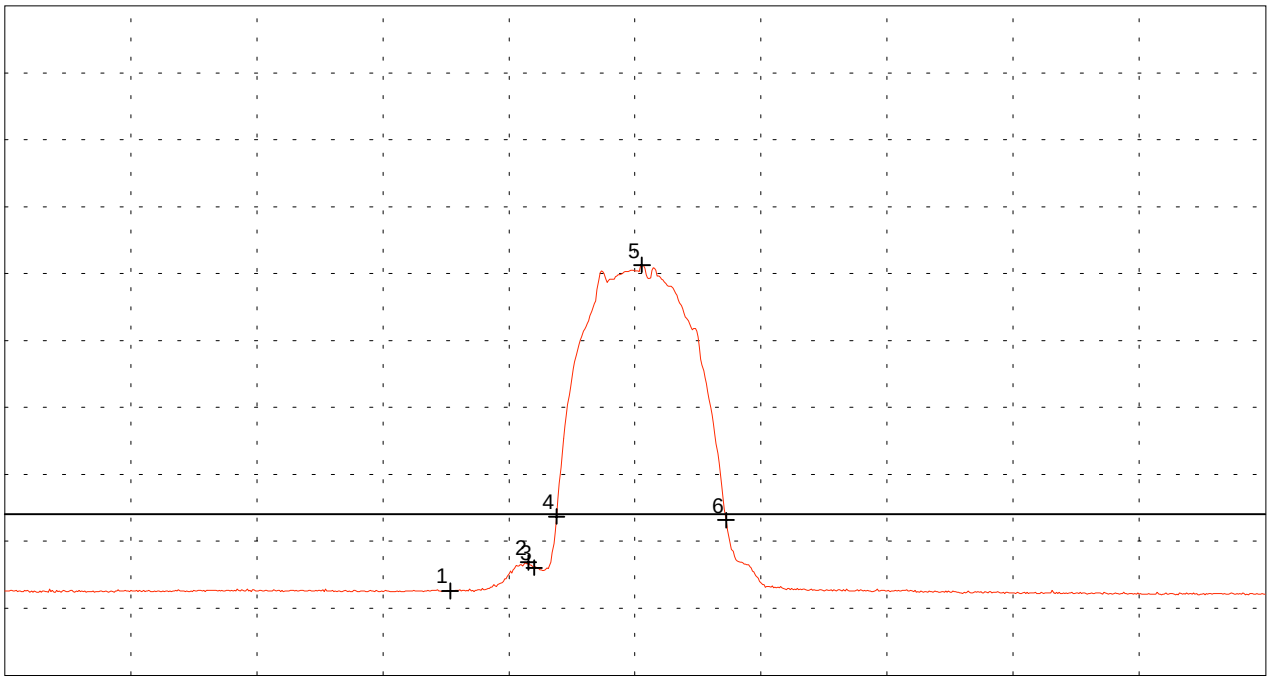
No. 1	2.310000 GHz	43.73 dBµV/m
No. 2	2.390000 GHz	46.50 dBµV/m
No. 3	2.400000 GHz	60.77 dBµV/m
No. 4	2.411722 GHz	106.38 dBµV/m
No. 5	2.483500 GHz	44.54 dBµV/m
No. 6	2.500000 GHz	43.83 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

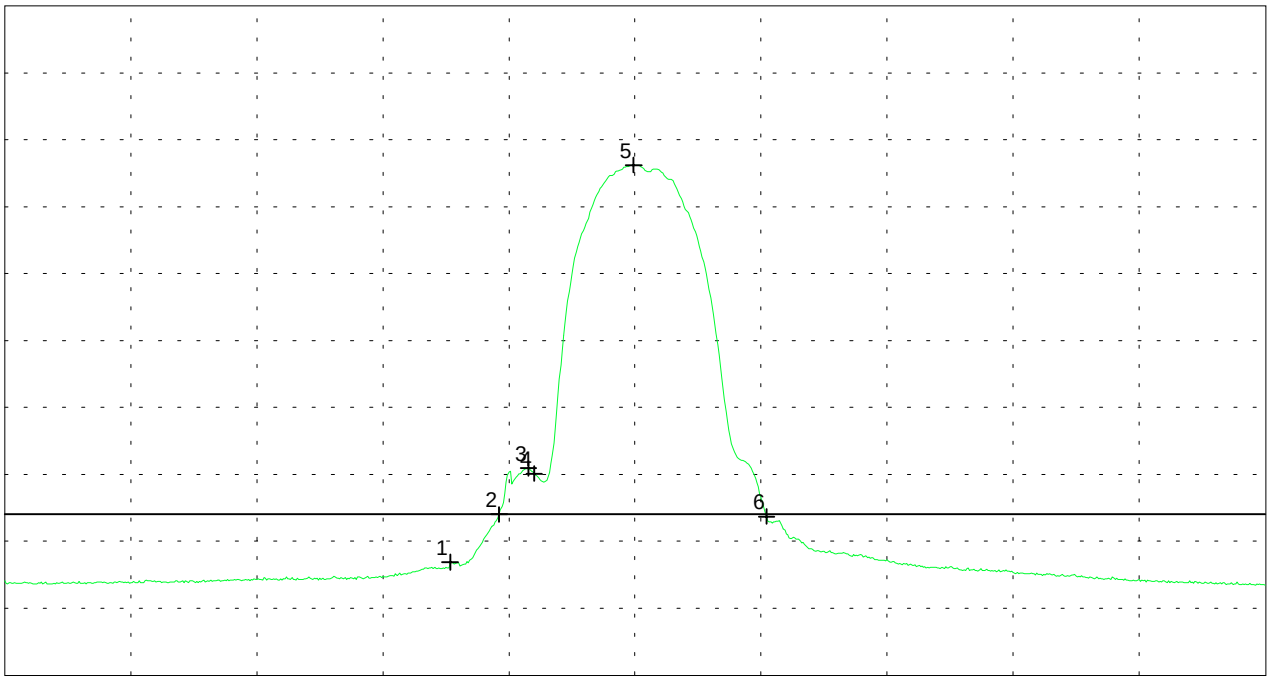
No. 1	2.390000 GHz	42.56 dBµV/m
No. 2	2.399333 GHz	46.83 dBµV/m
No. 3	2.400000 GHz	46.04 dBµV/m
No. 4	2.402667 GHz	53.66 dBµV/m
No. 5	2.412833 GHz	91.29 dBµV/m
No. 6	2.422833 GHz	53.15 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	Page 61 of 116 Pages

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.390000 GHz	46.85 dBµV/m
No. 2	2.395833 GHz	53.99 dBµV/m
No. 3	2.399333 GHz	60.90 dBµV/m
No. 4	2.400000 GHz	60.11 dBµV/m
No. 5	2.411833 GHz	106.22 dBµV/m
No. 6	2.427667 GHz	53.69 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	Page 62 of 116 Pages

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with f = 2.412 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	38.3	0.6	20.7	59.5	74
2.3977	vertical	48.7	0.6	20.7	70.0	NRB
2.4000	vertical	45.5	0.6	20.7	66.8	NRB
2.4027	vertical	52.0	0.6	20.7	73.3	OB
2.4112	vertical	88.9	0.6	20.7	110.2	OB
2.4237	vertical	52.6	0.6	20.7	73.9	OB
4.8240	vertical	18.8	0.9	27.3	47.0	74
7.2375	vertical	19.8	1.1	29.9	50.8	NRB

Note 1: 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 110.2 dBµV/m.

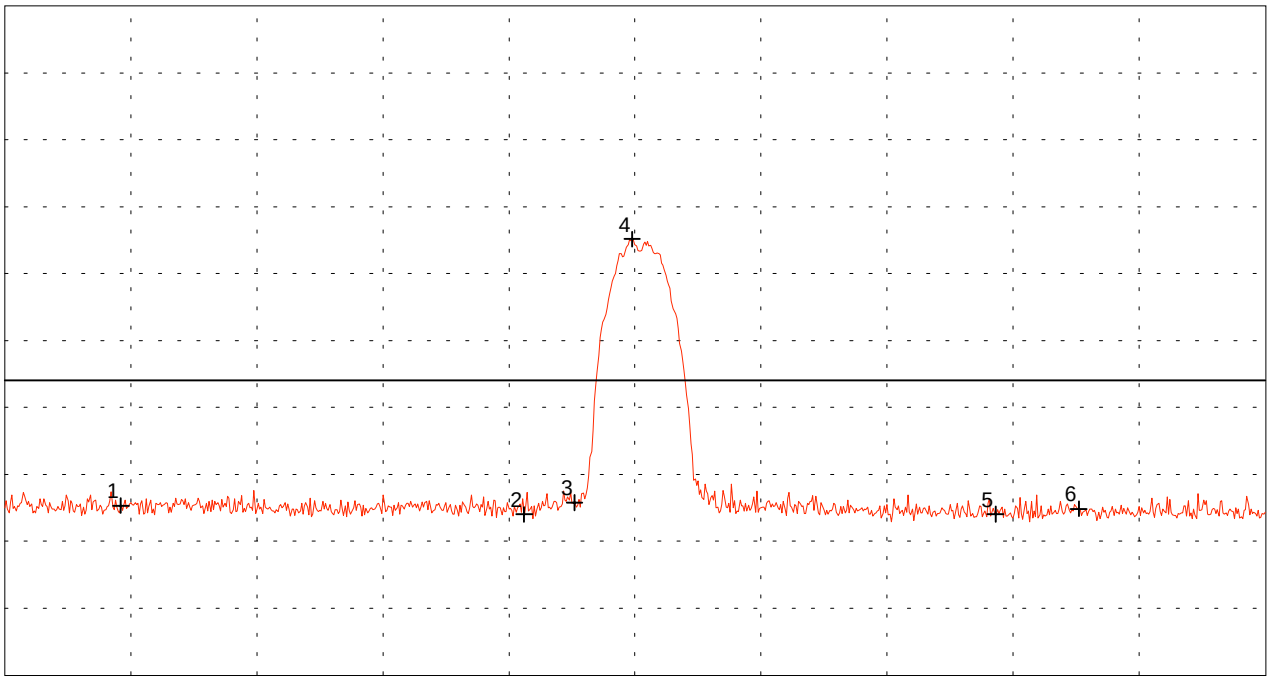
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiate emission with 11 Mbps (peak)

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.287 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

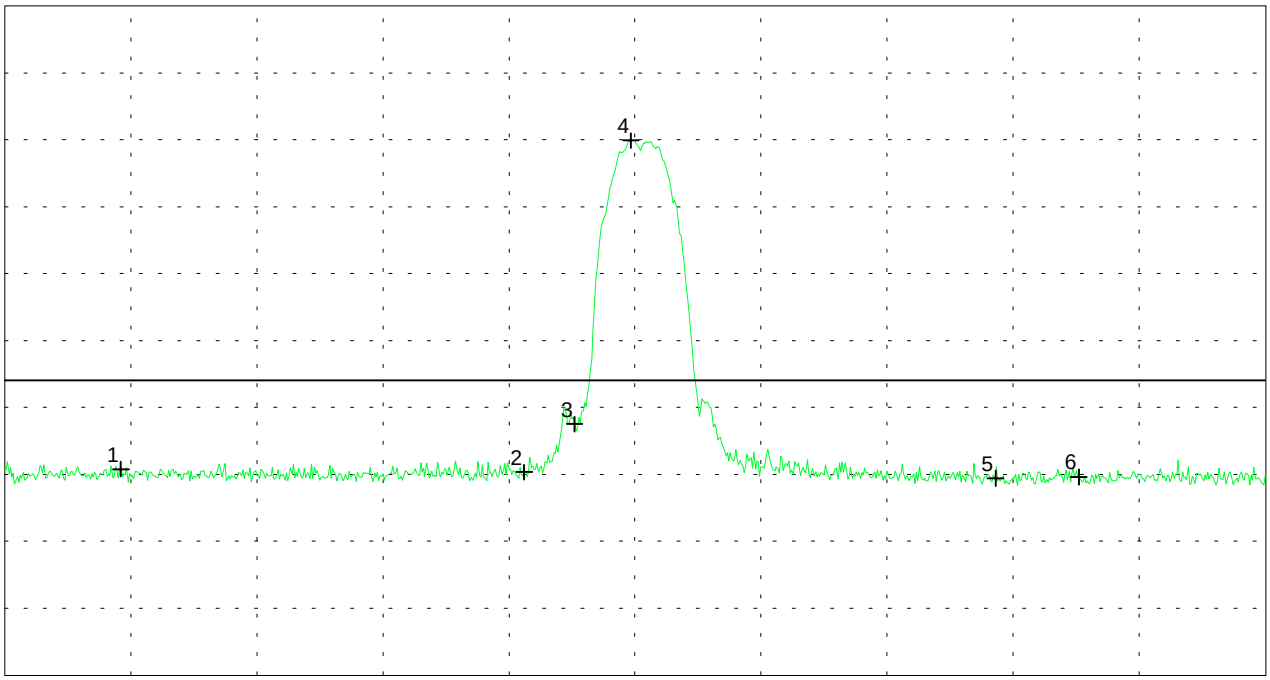
No. 1	2.310000 GHz	55.33 dBµV/m
No. 2	2.390000 GHz	53.99 dBµV/m
No. 3	2.400000 GHz	55.74 dBµV/m
No. 4	2.411444 GHz	95.15 dBµV/m
No. 5	2.483500 GHz	54.04 dBµV/m
No. 6	2.500000 GHz	54.85 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.287 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

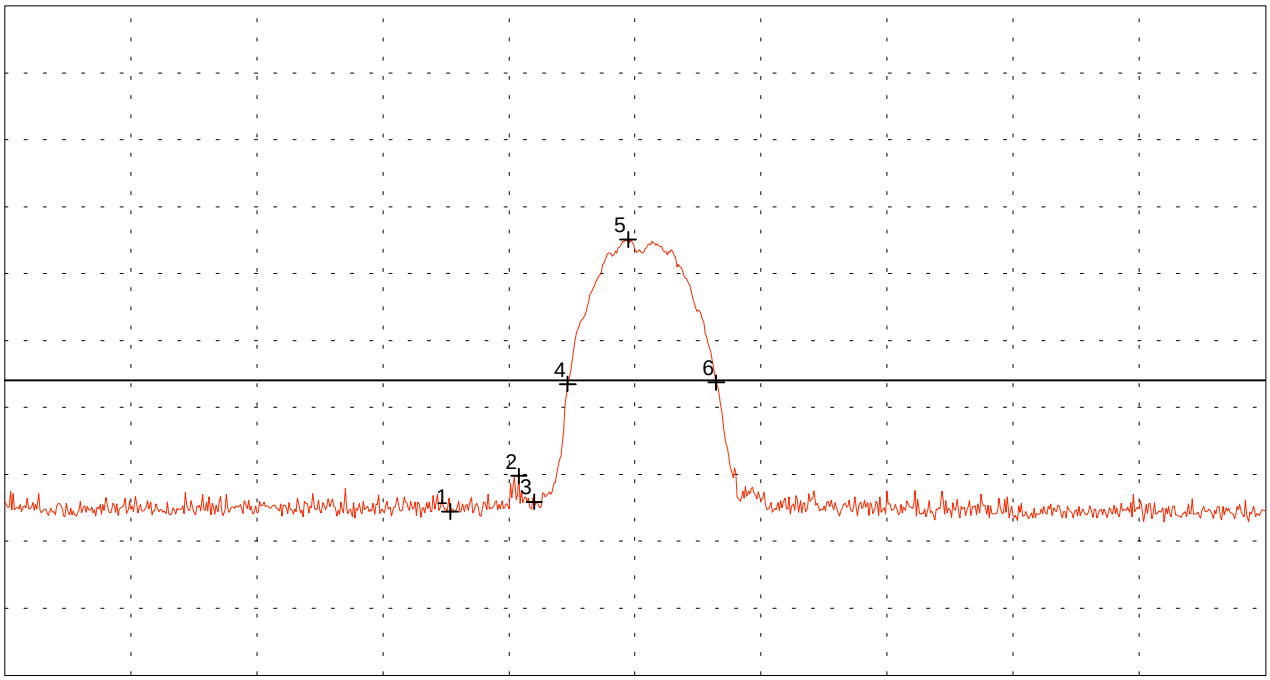
No. 1	2.310000 GHz	60.76 dBµV/m
No. 2	2.390000 GHz	60.30 dBµV/m
No. 3	2.400000 GHz	67.49 dBµV/m
No. 4	2.411167 GHz	109.90 dBµV/m
No. 5	2.483500 GHz	59.39 dBµV/m
No. 6	2.500000 GHz	59.57 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



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

Multi Marker List

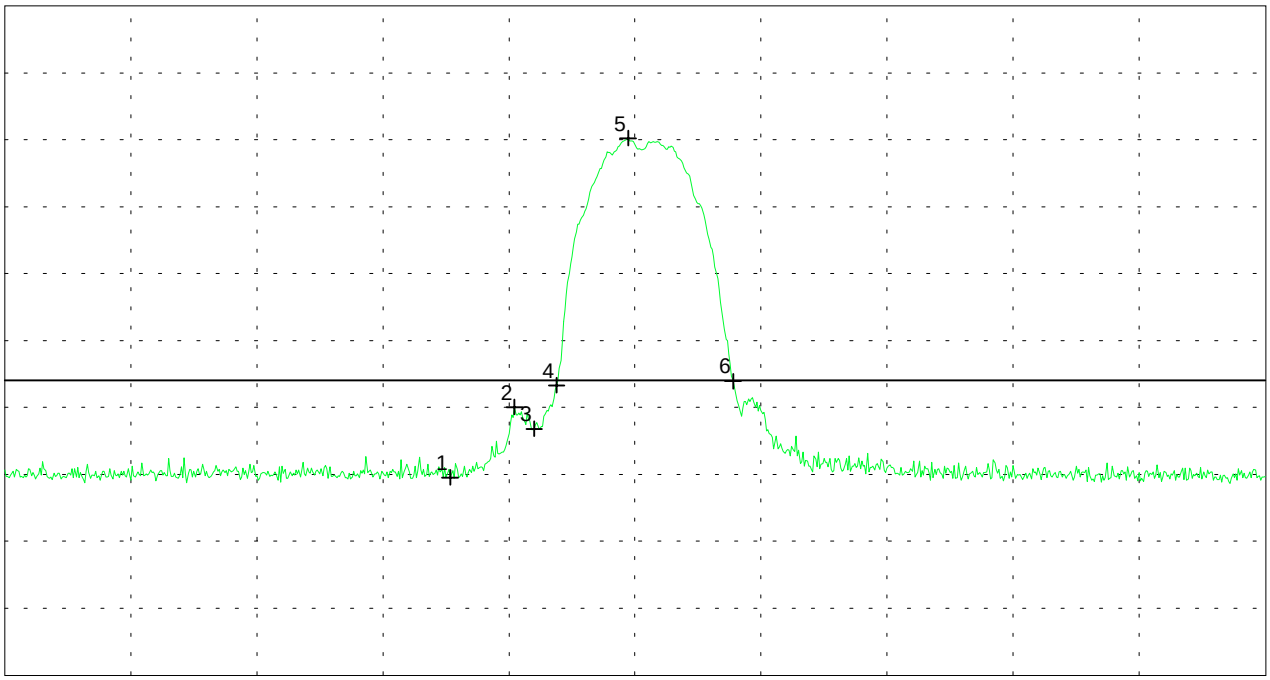
No. 1	2.390000 GHz	54.42 dBµV/m
No. 2	2.398167 GHz	59.73 dBµV/m
No. 3	2.400000 GHz	55.87 dBµV/m
No. 4	2.404000 GHz	73.51 dBµV/m
No. 5	2.411167 GHz	95.10 dBµV/m
No. 6	2.421667 GHz	73.74 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



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

Multi Marker List

No. 1	2.390000 GHz	59.54 dBµV/m
No. 2	2.397667 GHz	70.03 dBµV/m
No. 3	2.400000 GHz	66.78 dBµV/m
No. 4	2.402667 GHz	73.28 dBµV/m
No. 5	2.411167 GHz	110.23 dBµV/m
No. 6	2.423667 GHz	73.92 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with f = 2.412 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	25.1	0.6	20.7	46.4	54
2.3960	vertical	32.7	0.6	20.7	54.0	NRB
2.3983	vertical	40.7	0.6	20.7	62.0	NRB
2.4000	vertical	38.0	0.6	20.7	59.4	NRB
2.4115	vertical	85.0	0.6	20.7	106.3	OB
2.4282	vertical	32.1	0.6	20.7	53.5	OB
4.8239	vertical	15.0	0.9	27.3	43.1	54
7.2369	vertical	11.6	1.1	29.9	42.6	NRB

Note 1: 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.

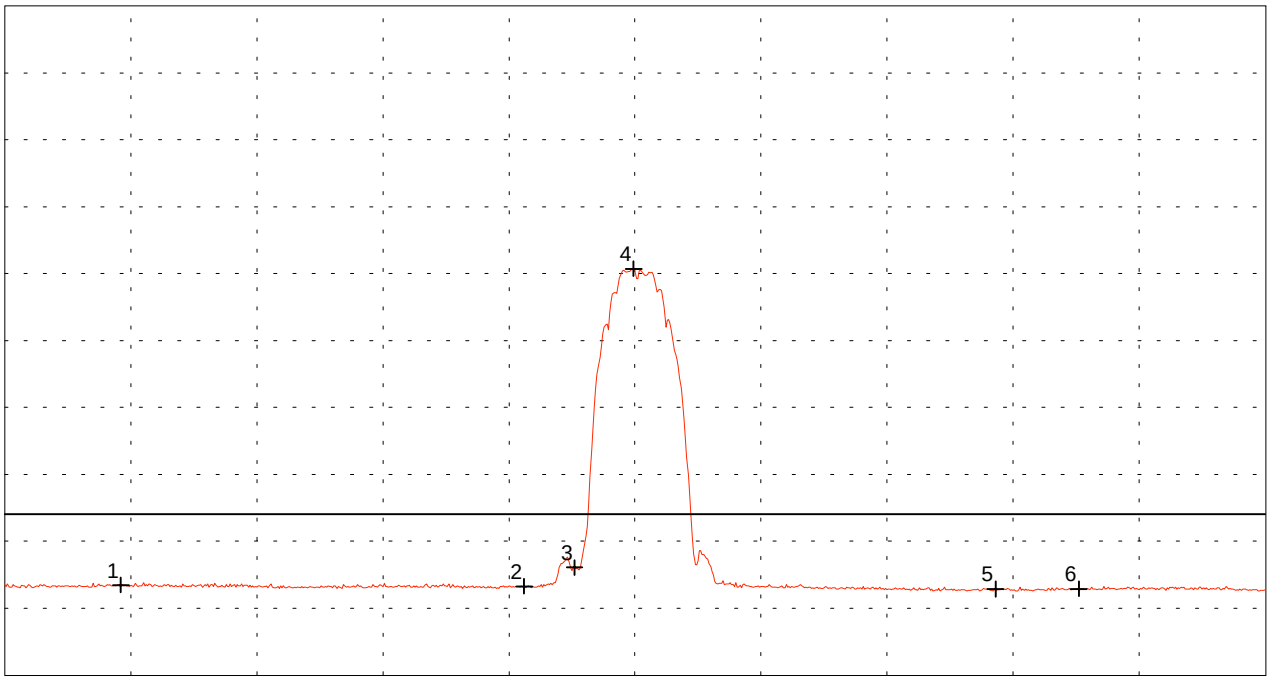
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.287 GHz Stop 2.537 GHz
RBW 1 MHz VBW 3 kHz SWP 260 ms

Multi Marker List

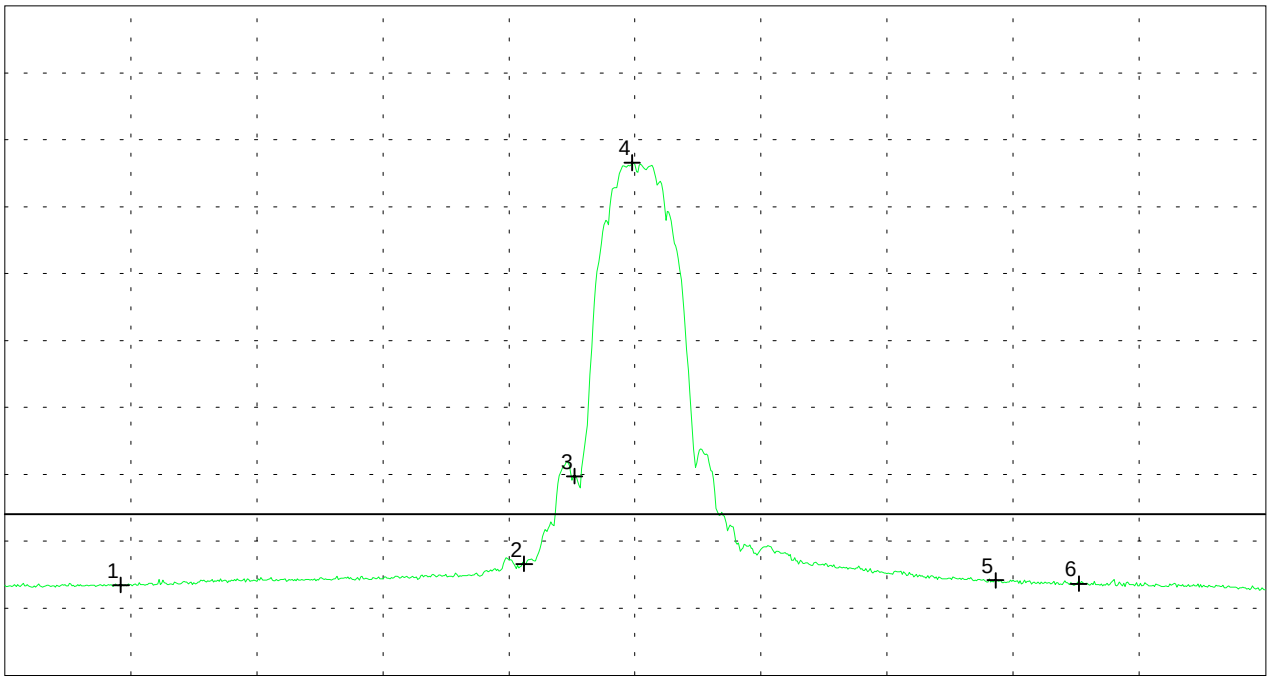
No. 1	2.310000 GHz	43.45 dBµV/m
No. 2	2.390000 GHz	43.25 dBµV/m
No. 3	2.400000 GHz	46.06 dBµV/m
No. 4	2.411722 GHz	90.73 dBµV/m
No. 5	2.483500 GHz	42.84 dBµV/m
No. 6	2.500000 GHz	42.86 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.287 GHz Stop 2.537 GHz
RBW 1 MHz VBW 3 kHz SWP 260 ms

Multi Marker List

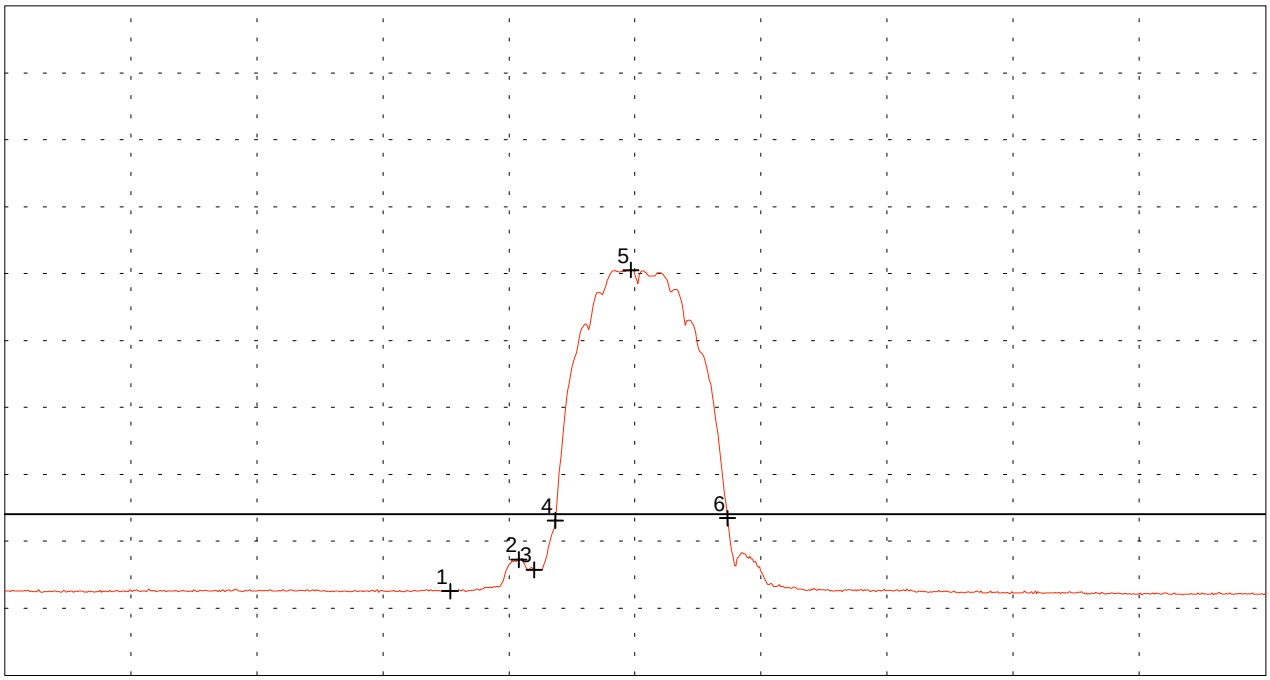
No. 1	2.310000 GHz	43.43 dBµV/m
No. 2	2.390000 GHz	46.60 dBµV/m
No. 3	2.400000 GHz	59.70 dBµV/m
No. 4	2.411444 GHz	106.58 dBµV/m
No. 5	2.483500 GHz	44.14 dBµV/m
No. 6	2.500000 GHz	43.63 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

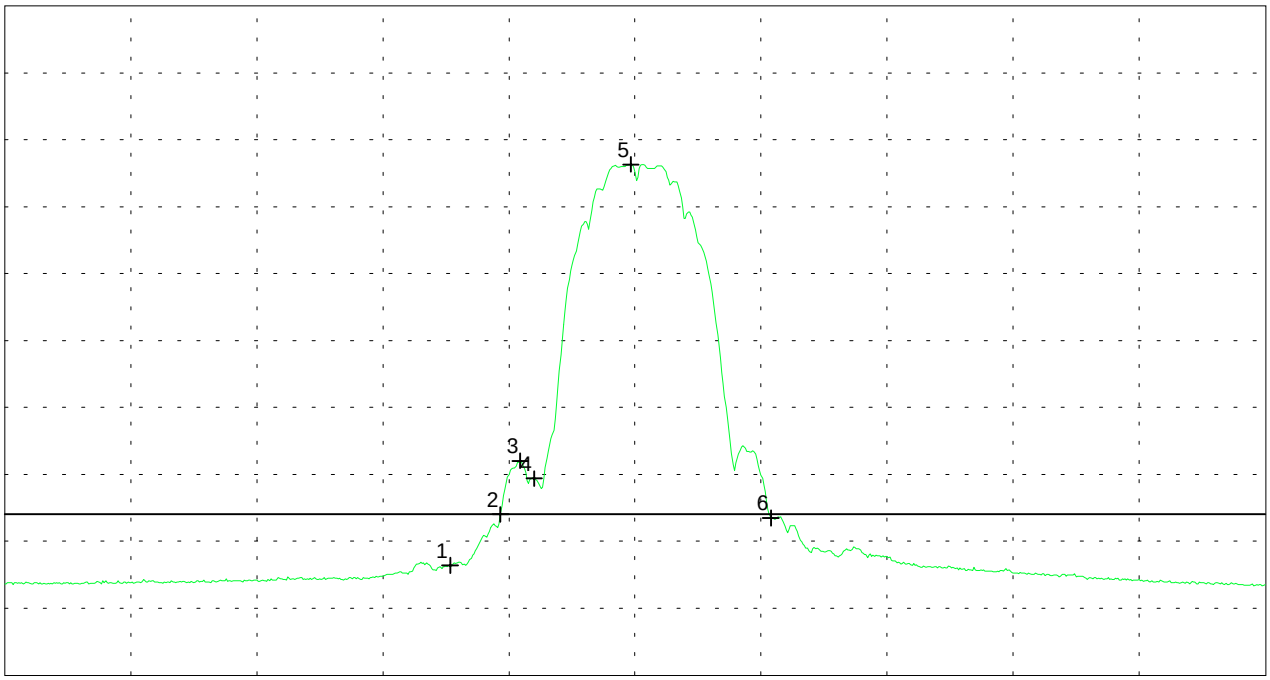
No. 1	2.390000 GHz	42.53 dBµV/m
No. 2	2.398167 GHz	47.23 dBµV/m
No. 3	2.400000 GHz	45.71 dBµV/m
No. 4	2.402500 GHz	53.07 dBµV/m
No. 5	2.411500 GHz	90.53 dBµV/m
No. 6	2.423000 GHz	53.43 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.390000 GHz	46.37 dBµV/m
No. 2	2.396000 GHz	53.99 dBµV/m
No. 3	2.398333 GHz	62.01 dBµV/m
No. 4	2.400000 GHz	59.35 dBµV/m
No. 5	2.411500 GHz	106.33 dBµV/m
No. 6	2.428167 GHz	53.46 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4320	vertical	52.3	0.6	20.7	73.6	OB
2.4427	vertical	90.6	0.6	20.7	112.0	OB
2.4540	vertical	52.7	0.6	20.7	74.0	OB
2.6660	vertical	19.8	0.6	23.7	44.1	74
2.7965	vertical	20.8	0.7	23.7	45.1	74
3.1895	vertical	19.9	0.7	23.7	44.3	74
4.8894	horizontal	16.7	0.9	27.3	44.9	74
7.3279	vertical	15.6	1.1	29.9	46.6	74
9.7680	vertical	12.0	1.3	33.4	46.7	NRB

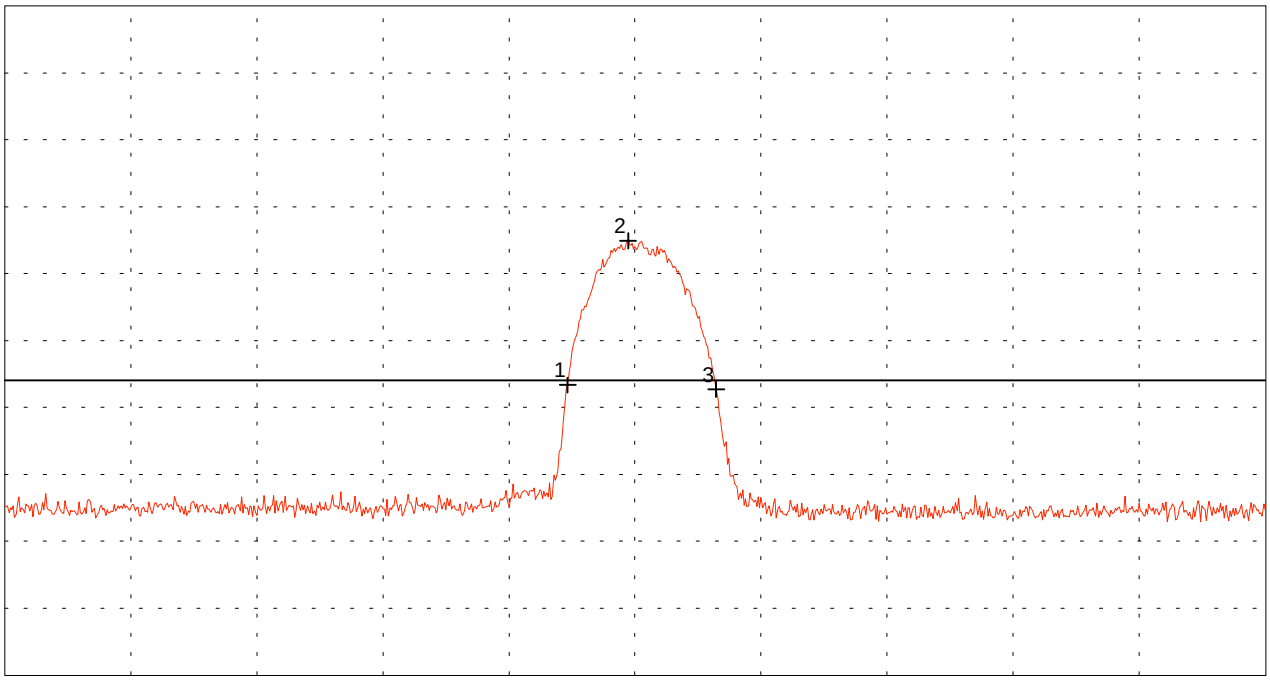
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 112.0 dBµV/m.

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



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

Multi Marker List

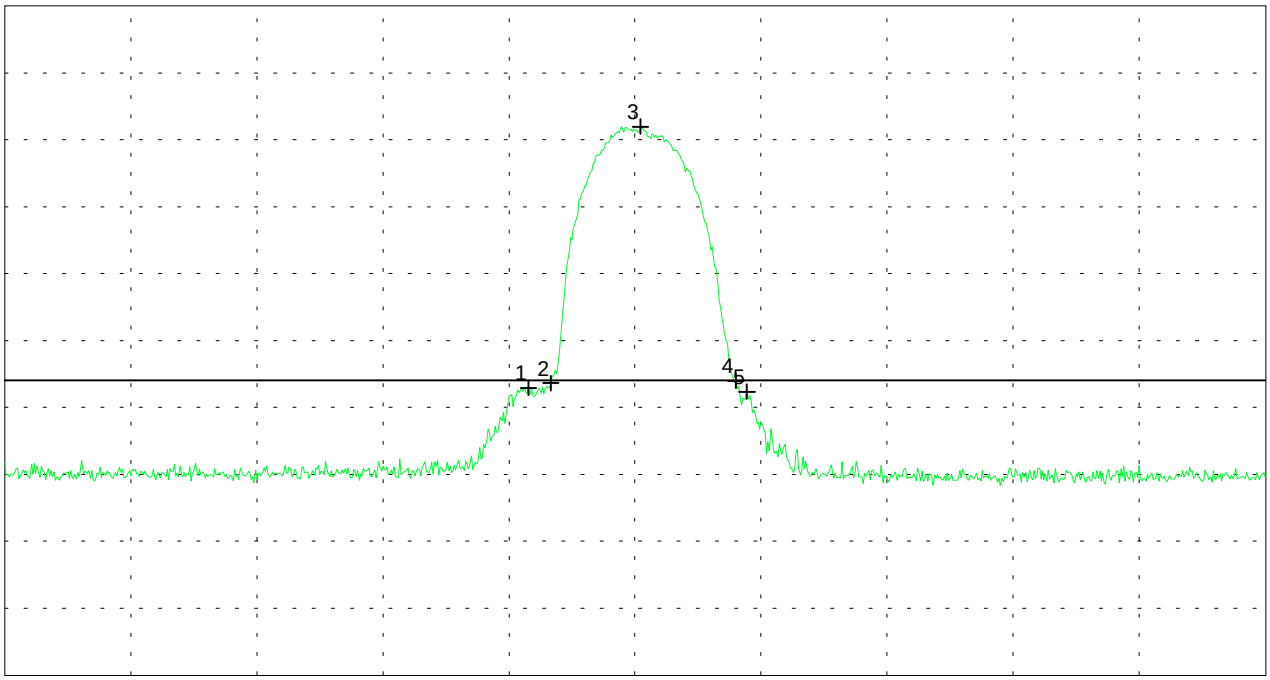
No. 1	2.434000 GHz	73.36 dBµV/m
No. 2	2.441167 GHz	94.90 dBµV/m
No. 3	2.451667 GHz	72.70 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	Page 74 of 116 Pages

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



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

Multi Marker List

No. 1	2.429333 GHz	72.93 dBµV/m
No. 2	2.432000 GHz	73.61 dBµV/m
No. 3	2.442667 GHz	111.96 dBµV/m
No. 4	2.454000 GHz	73.99 dBµV/m
No. 5	2.455333 GHz	72.32 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4243	vertical	32.3	0.6	20.7	53.6	OB
2.4413	vertical	84.6	0.6	20.7	105.9	OB
2.4572	vertical	31.9	0.6	20.7	53.2	OB
2.6645	vertical	< 11.2	0.6	23.7	< 35.5	54
2.7980	vertical	< 12.7	0.7	23.7	< 37.1	54
4.8843	vertical	12.1	0.9	27.3	40.3	54
7.3254	vertical	7.0	1.1	29.9	38.0	54
9.7680	vertical	7.7	1.3	33.4	42.4	NRB

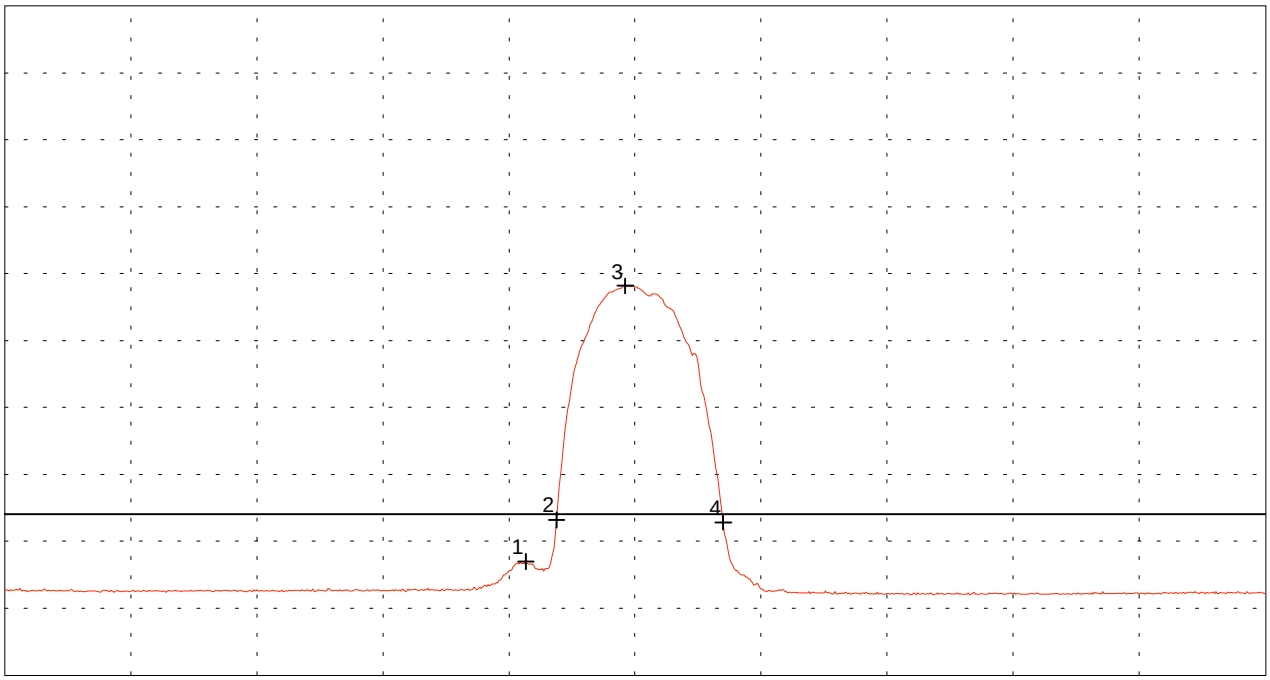
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.9 dBµV/m.

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

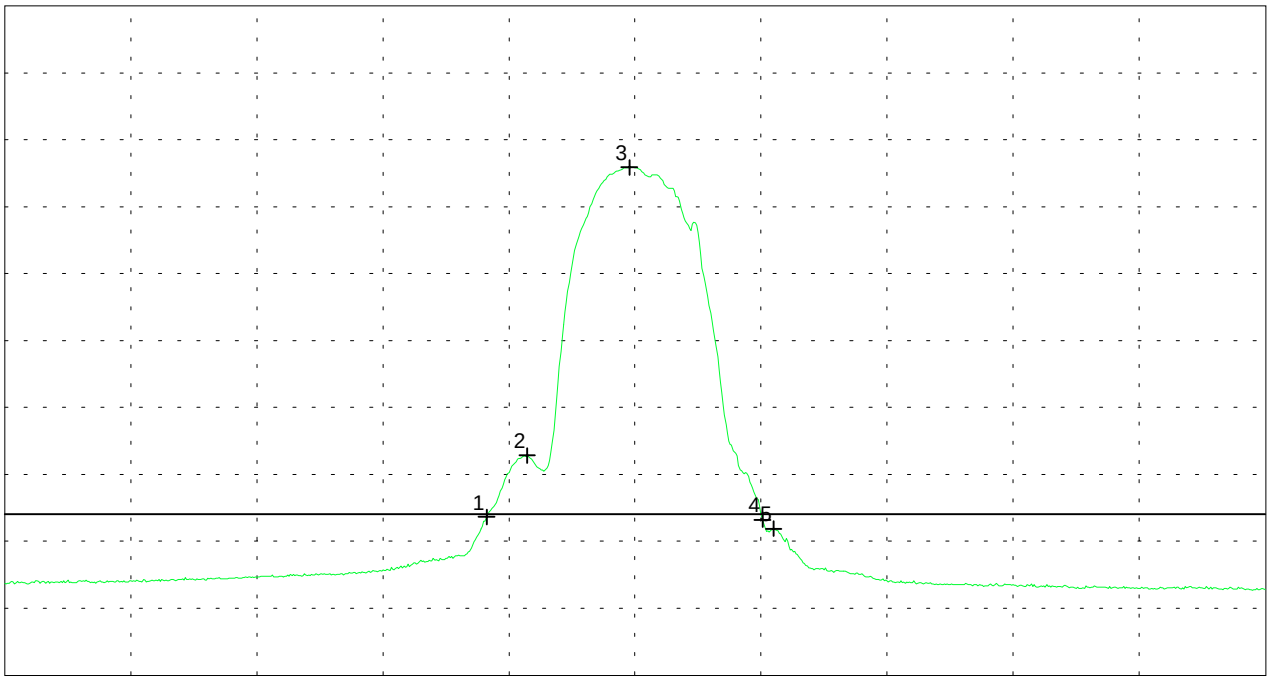
No. 1	2.429000 GHz	46.95 dBµV/m
No. 2	2.432667 GHz	53.17 dBµV/m
No. 3	2.440833 GHz	88.17 dBµV/m
No. 4	2.452500 GHz	52.82 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.424333 GHz	53.63 dBµV/m
No. 2	2.429167 GHz	62.80 dBµV/m
No. 3	2.441333 GHz	105.89 dBµV/m
No. 4	2.457167 GHz	53.20 dBµV/m
No. 5	2.458500 GHz	51.88 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4323	vertical	51.9	0.6	20.7	73.2	OB
2.4410	vertical	88.8	0.6	20.7	110.1	OB
2.4535	vertical	52.1	0.6	20.7	73.4	OB
4.8841	vertical	19.6	0.9	27.3	47.8	74
7.3262	vertical	15.9	1.1	29.9	47.0	74
9.7682	vertical	12.1	1.3	33.4	46.8	NRB

Note 1: 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 110.1 dBµV/m.

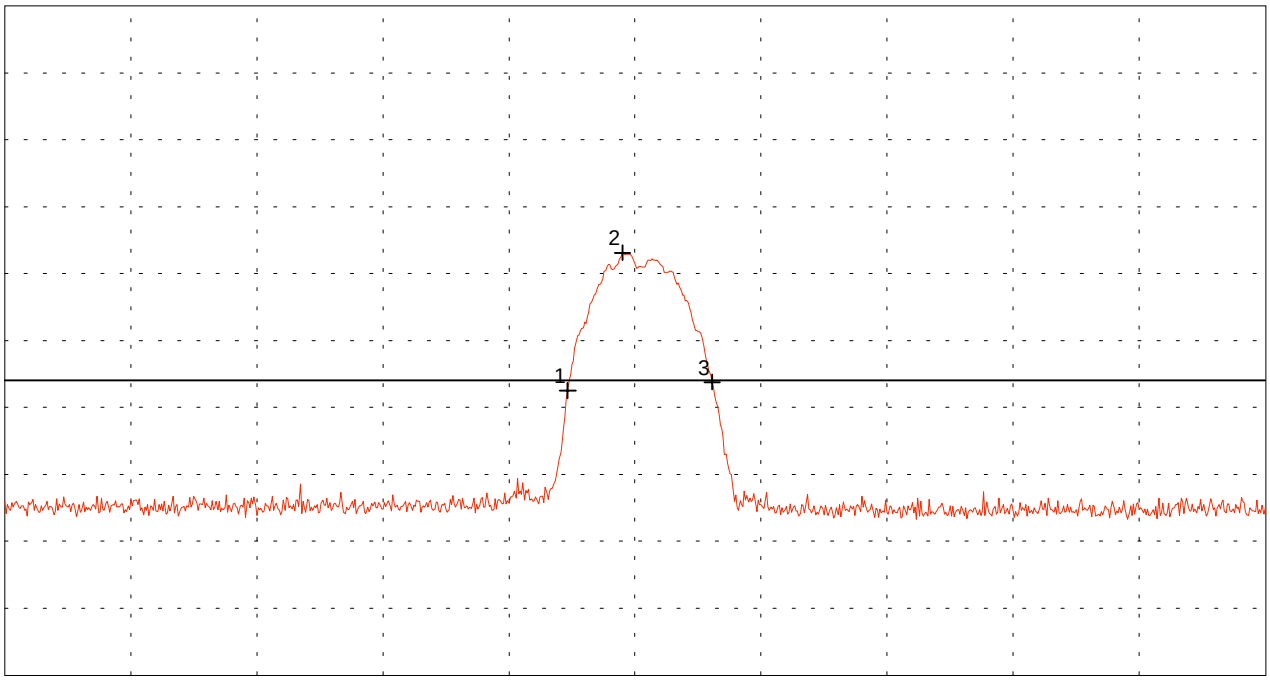
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiate emission with 11 Mbps (peak)

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



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

Multi Marker List

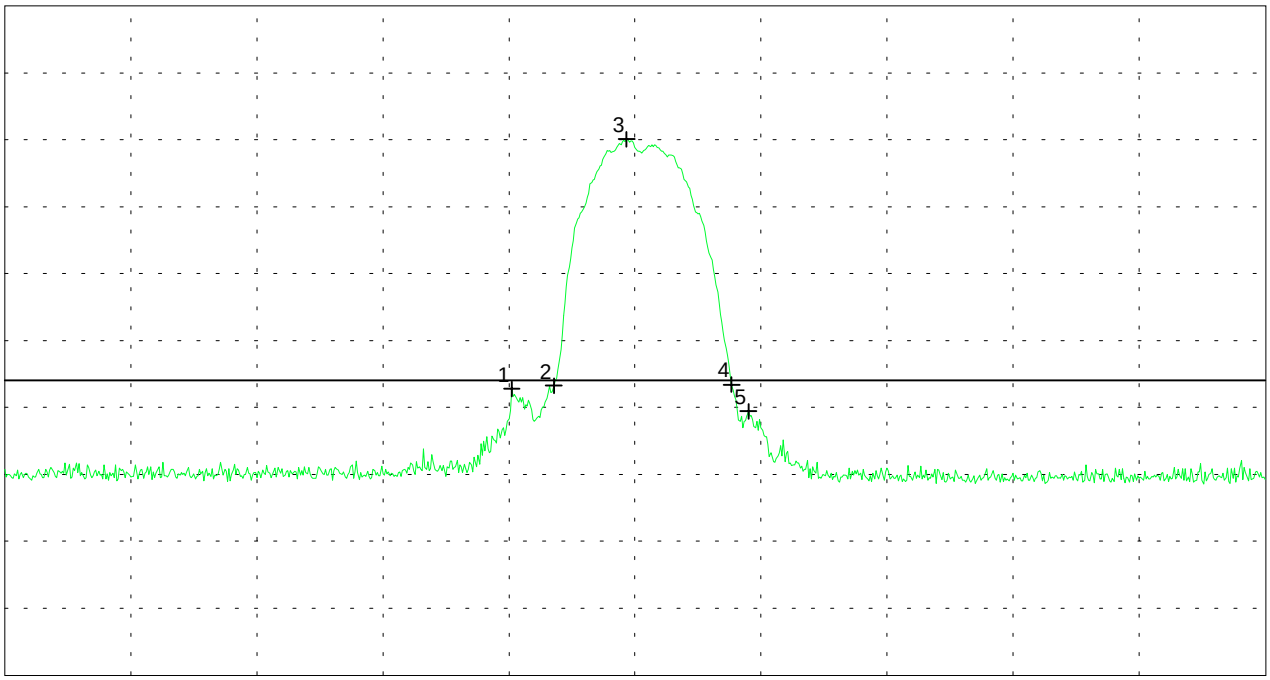
No. 1	2.434000 GHz	72.50 dBµV/m
No. 2	2.440500 GHz	93.12 dBµV/m
No. 3	2.451167 GHz	73.79 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



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

Multi Marker List

No. 1	2.427333 GHz	72.77 dBµV/m
No. 2	2.432333 GHz	73.23 dBµV/m
No. 3	2.441000 GHz	110.08 dBµV/m
No. 4	2.453500 GHz	73.38 dBµV/m
No. 5	2.455500 GHz	69.40 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4245	vertical	32.5	0.6	20.7	53.9	OB
2.4395	vertical	85.0	0.6	20.7	106.3	OB
2.4580	vertical	32.2	0.6	20.7	53.5	OB
4.8840	vertical	17.2	0.9	27.3	45.4	54
7.3269	vertical	10.1	1.1	29.9	41.2	54
9.7680	vertical	9.4	1.3	33.4	44.1	NRB

Note 1: 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.

Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

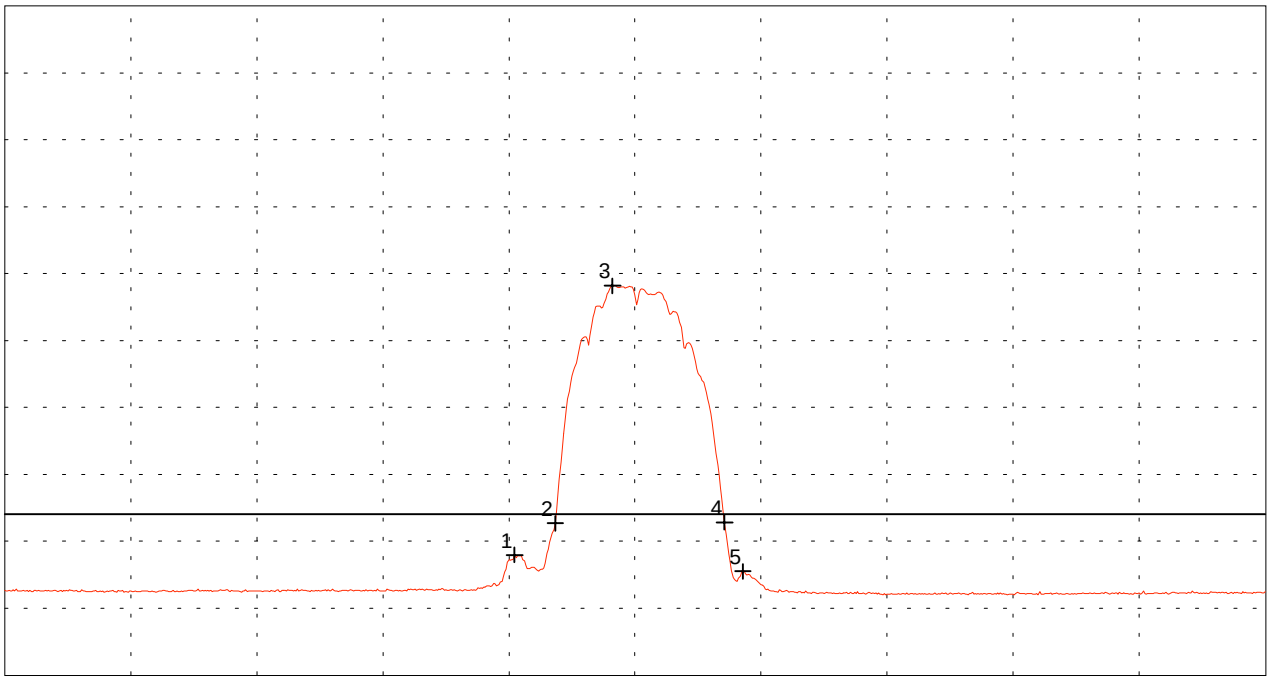
Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.517 GHz
SWP 460 ms

Multi Marker List

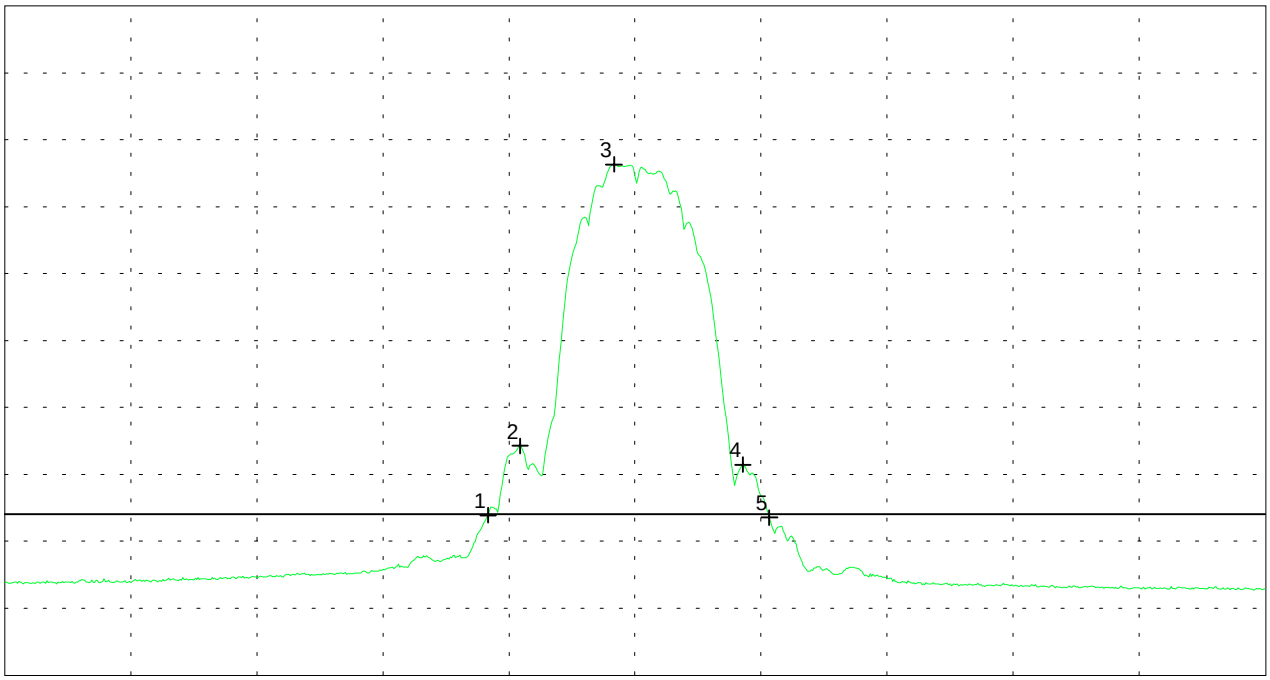
No. 1	2.427667 GHz	47.92 dBµV/m
No. 2	2.432500 GHz	52.67 dBµV/m
No. 3	2.439333 GHz	88.19 dBµV/m
No. 4	2.452667 GHz	52.84 dBµV/m
No. 5	2.454833 GHz	45.51 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.424500 GHz	53.86 dBµV/m
No. 2	2.428333 GHz	64.25 dBµV/m
No. 3	2.439500 GHz	106.30 dBµV/m
No. 4	2.454833 GHz	61.41 dBµV/m
No. 5	2.458000 GHz	53.51 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with f = 2.462 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4518	vertical	52.5	0.6	20.7	73.9	OB
2.4628	vertical	90.9	0.6	20.7	112.2	OB
2.4737	vertical	52.6	0.6	20.7	73.9	OB
2.4835	vertical	38.8	0.6	20.7	60.1	74
2.4943	vertical	40.5	0.6	20.7	61.8	74
2.5000	vertical	39.0	0.6	20.7	60.3	74
2.6675	vertical	19.8	0.6	23.7	44.2	74
2.7965	vertical	20.9	0.7	23.7	45.2	74
2.9195	vertical	20.4	0.7	23.7	44.8	74
3.3215	vertical	20.1	0.7	23.7	44.5	74
3.4760	vertical	19.9	0.7	23.8	44.4	74
3.7190	horizontal	20.1	0.8	23.8	44.7	74
4.9296	vertical	18.5	0.9	27.3	46.7	74
7.3906	vertical	15.8	1.1	30.0	46.9	74
9.8473	vertical	10.5	1.3	33.4	45.2	NRB
Test distance 0.5 meter						
19.6956	vertical	12.9	1.9	40.3	55.1	89.6

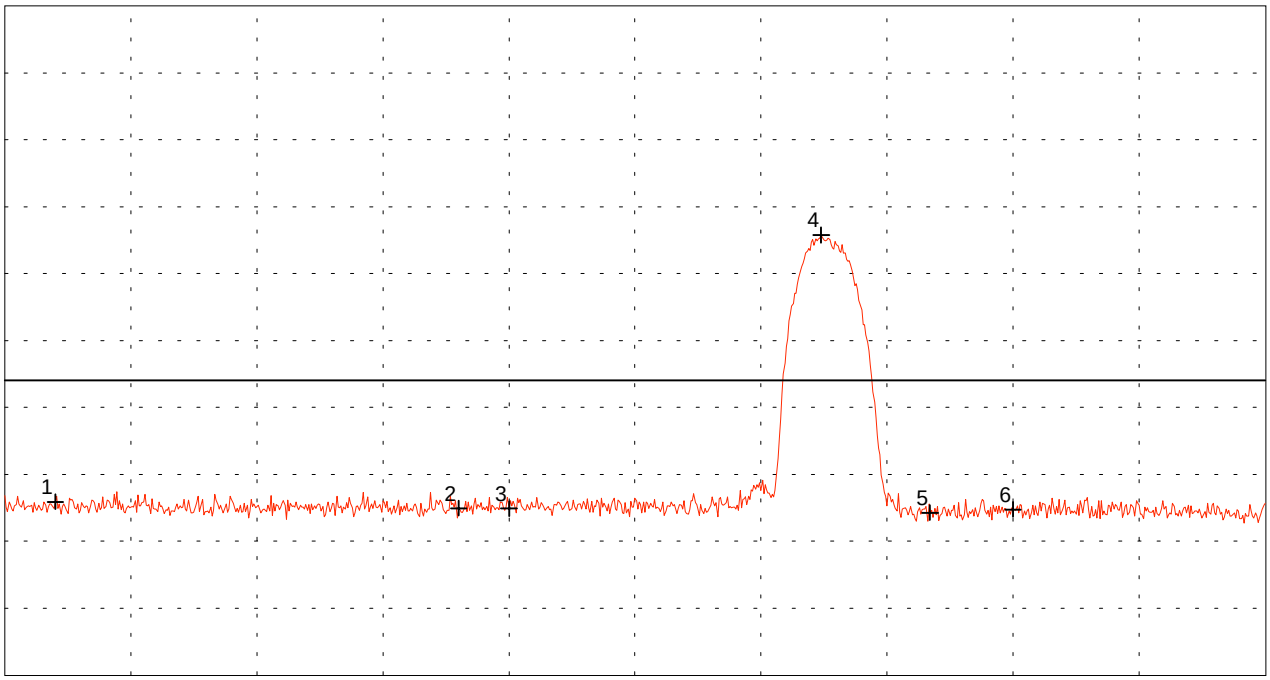
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 112.2 dBµV/m.

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.300 GHz Stop 2.550 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

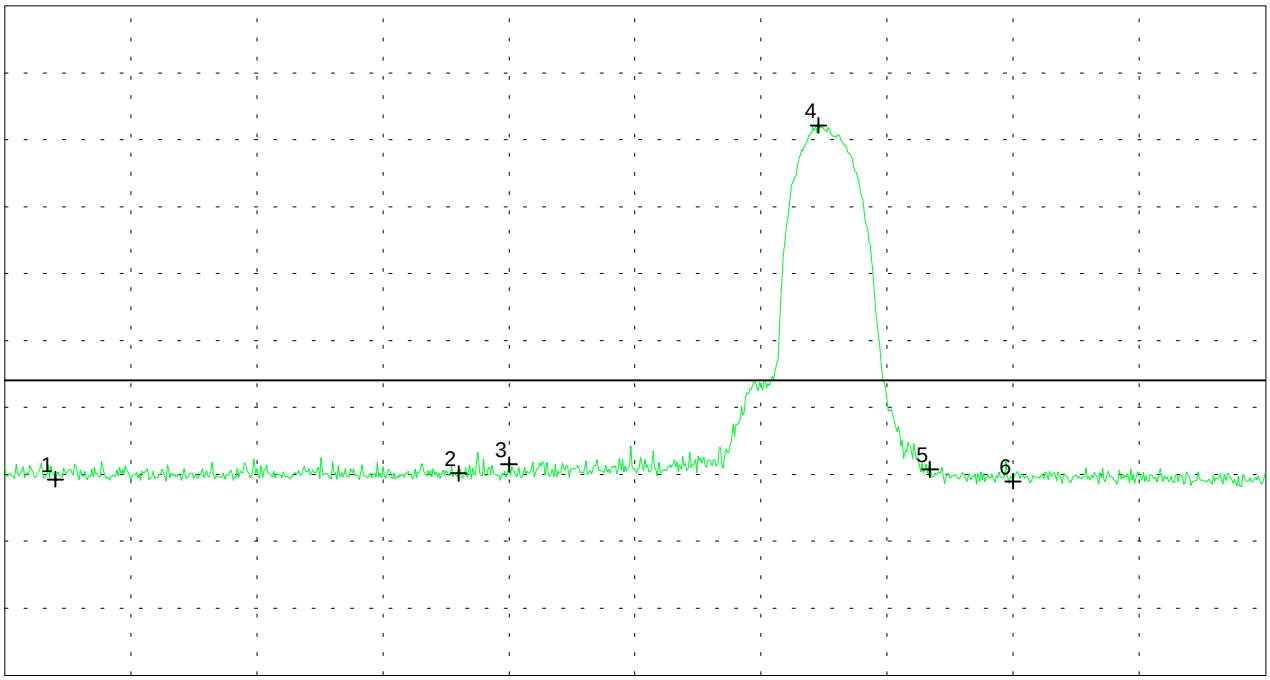
No. 1	2.310000 GHz	55.87 dBµV/m
No. 2	2.390000 GHz	54.93 dBµV/m
No. 3	2.400000 GHz	54.88 dBµV/m
No. 4	2.461944 GHz	95.76 dBµV/m
No. 5	2.483500 GHz	54.24 dBµV/m
No. 6	2.500000 GHz	54.72 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.300 GHz Stop 2.550 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

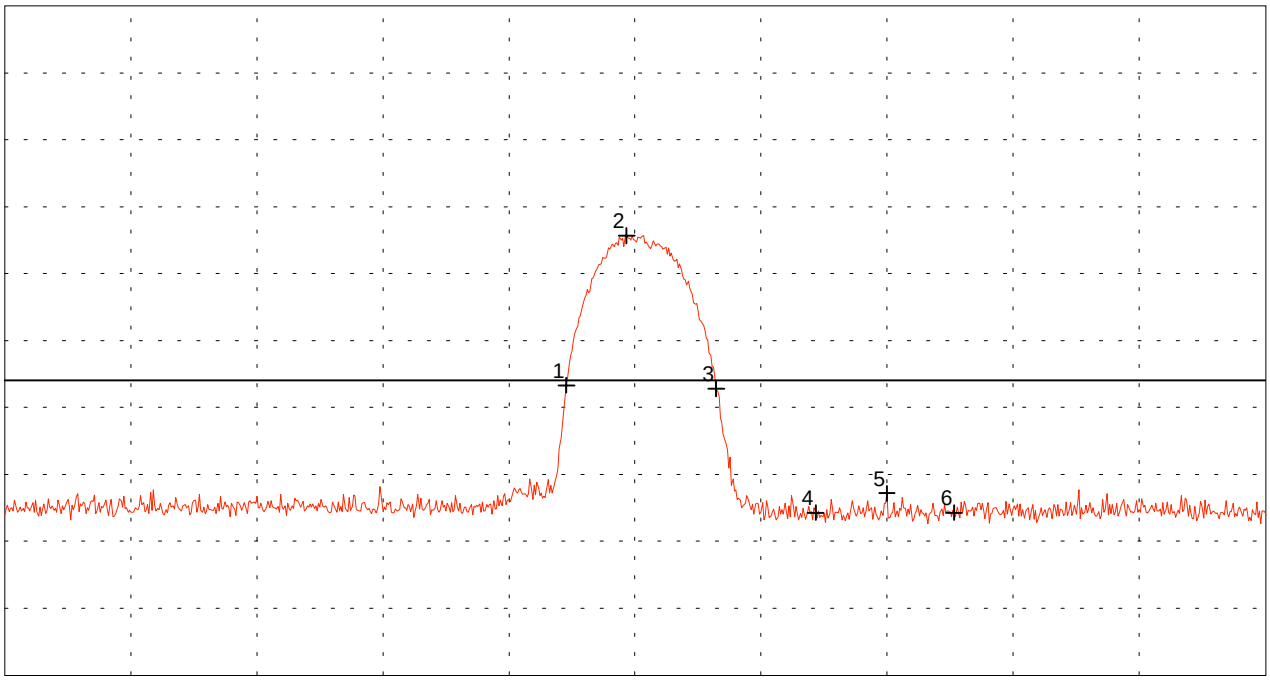
No. 1	2.310000 GHz	59.24 dBµV/m
No. 2	2.390000 GHz	60.13 dBµV/m
No. 3	2.400000 GHz	61.47 dBµV/m
No. 4	2.461389 GHz	112.16 dBµV/m
No. 5	2.483500 GHz	60.74 dBµV/m
No. 6	2.500000 GHz	58.96 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

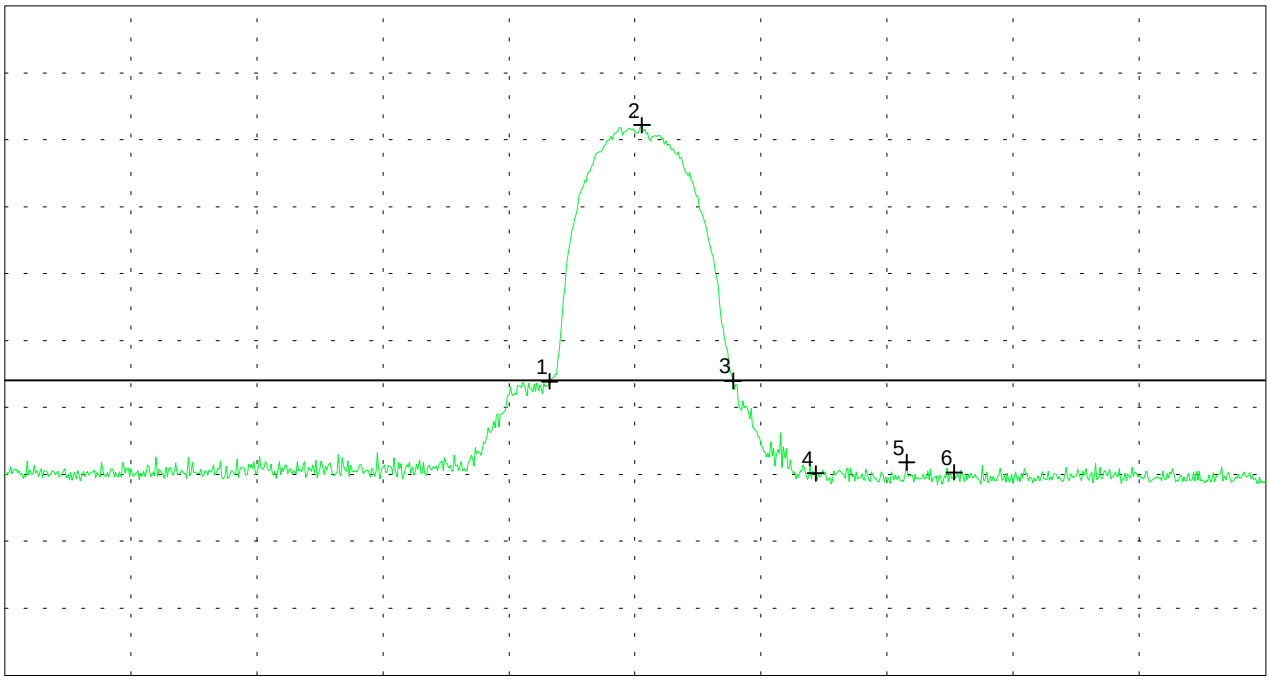
No. 1	2.453833 GHz	73.31 dBµV/m
No. 2	2.461000 GHz	95.68 dBµV/m
No. 3	2.471667 GHz	72.78 dBµV/m
No. 4	2.483500 GHz	54.27 dBµV/m
No. 5	2.492000 GHz	57.16 dBµV/m
No. 6	2.500000 GHz	54.24 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

No. 1	2.451833 GHz	73.86 dBµV/m
No. 2	2.462833 GHz	112.18 dBµV/m
No. 3	2.473667 GHz	73.94 dBµV/m
No. 4	2.483500 GHz	60.13 dBµV/m
No. 5	2.494333 GHz	61.78 dBµV/m
No. 6	2.500000 GHz	60.28 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with f = 2.462 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4438	vertical	32.4	0.6	20.7	53.7	OB
2.4608	vertical	84.8	0.6	20.7	106.1	OB
2.4767	vertical	32.1	0.6	20.7	53.5	OB
2.4835	vertical	24.0	0.6	20.7	45.3	54
2.4838	vertical	24.1	0.6	20.7	45.4	54
2.5000	vertical	22.2	0.6	20.7	43.6	54
2.6495	horizontal	< 10.6	0.6	23.7	< 34.9	54
2.7980	vertical	< 12.4	0.7	23.7	< 36.8	54
2.9330	vertical	< 10.1	0.7	23.7	< 34.5	54
4.9243	vertical	11.0	0.9	27.3	39.2	54
7.3862	vertical	7.3	1.1	30.0	38.4	54
Test distance 0.5 meter						
19.6878	vertical	10.0	1.9	40.3	52.2	69.6

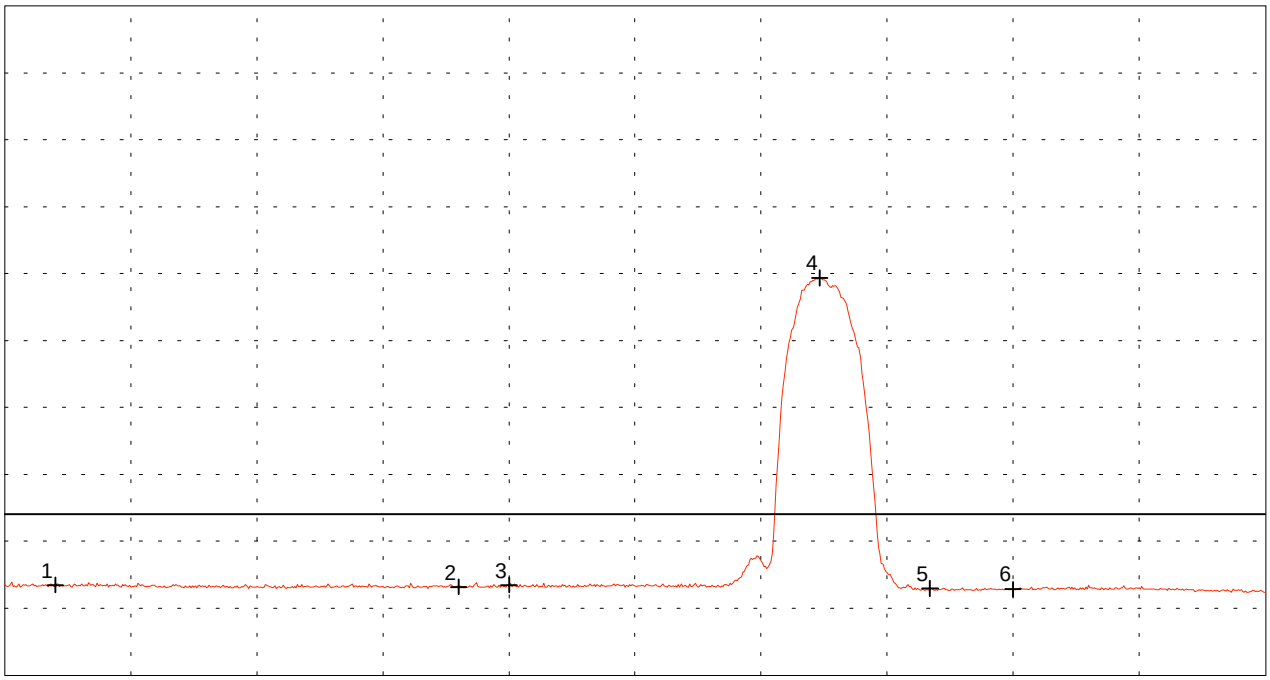
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 106.1 dBµV/m.

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.300 GHz Stop 2.550 GHz
RBW 1 MHz VBW 3 kHz SWP 260 ms

Multi Marker List

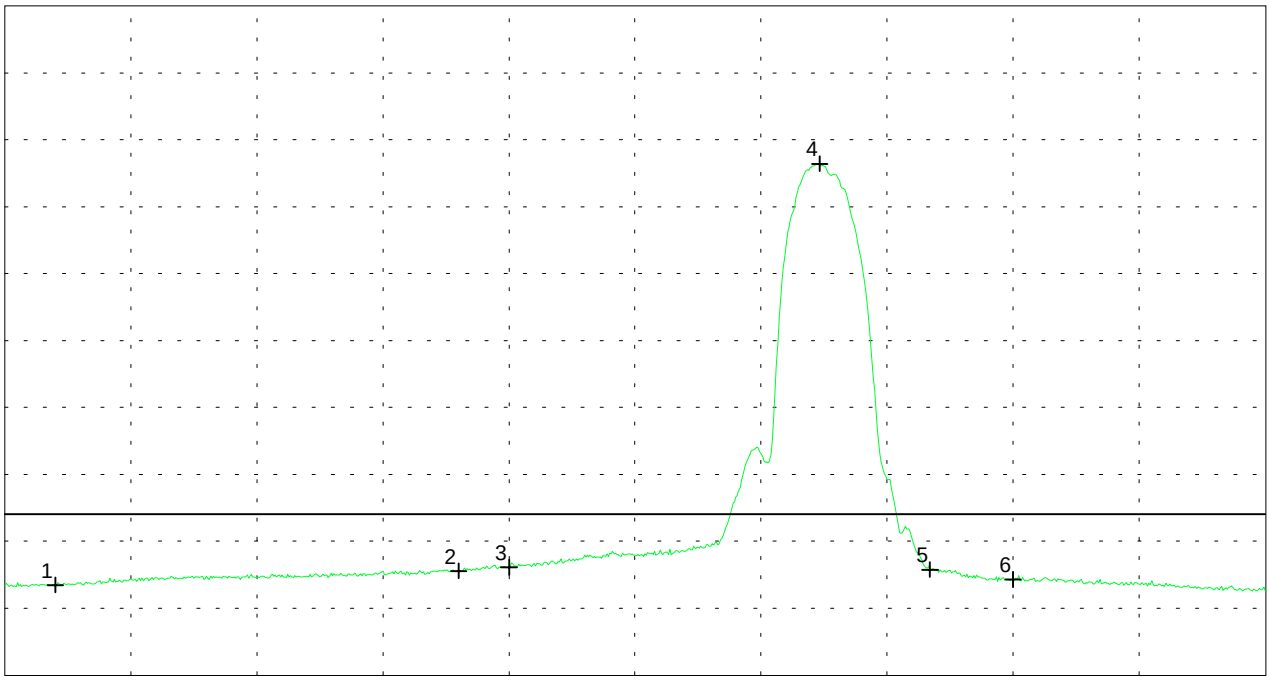
No. 1	2.310000 GHz	43.45 dBµV/m
No. 2	2.390000 GHz	43.17 dBµV/m
No. 3	2.400000 GHz	43.45 dBµV/m
No. 4	2.461667 GHz	89.36 dBµV/m
No. 5	2.483500 GHz	42.92 dBµV/m
No. 6	2.500000 GHz	42.81 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m
10 dB/Div.
ATT 5 dB
Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz
VBW 3 kHz
Stop 2.550 GHz
SWP 260 ms

Multi Marker List

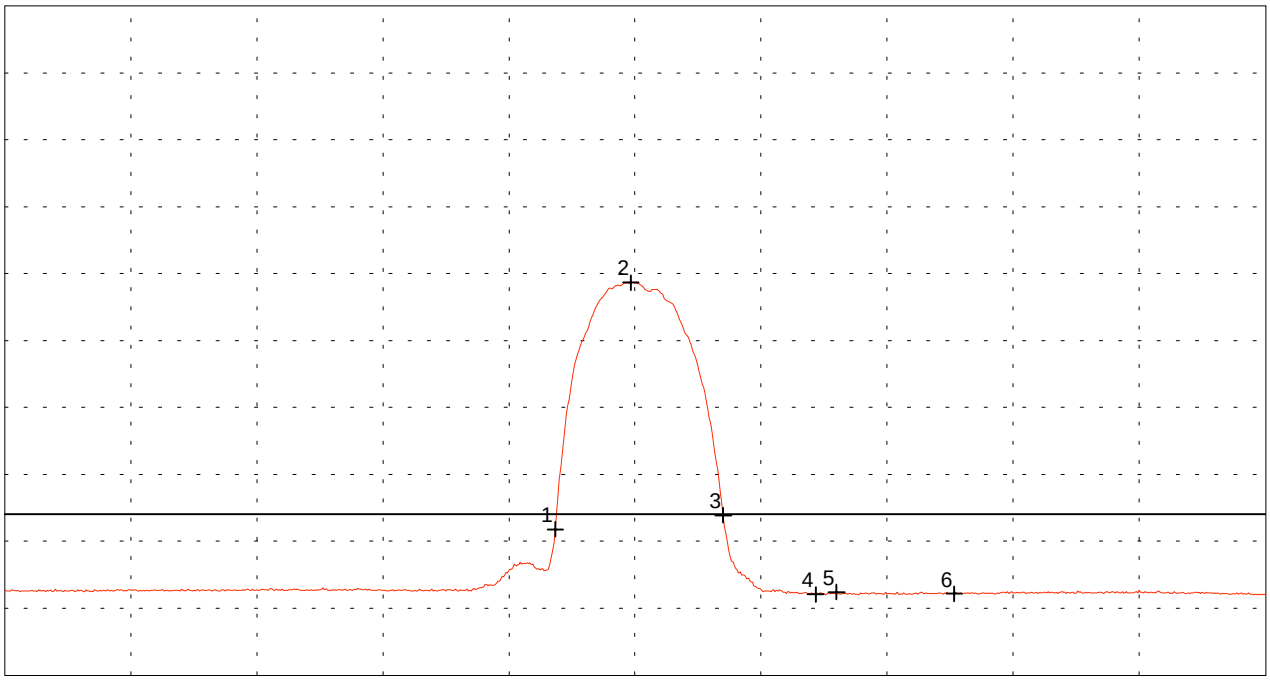
No. 1	2.310000 GHz	43.43 dBµV/m
No. 2	2.390000 GHz	45.56 dBµV/m
No. 3	2.400000 GHz	46.09 dBµV/m
No. 4	2.461667 GHz	106.43 dBµV/m
No. 5	2.483500 GHz	45.76 dBµV/m
No. 6	2.500000 GHz	44.26 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

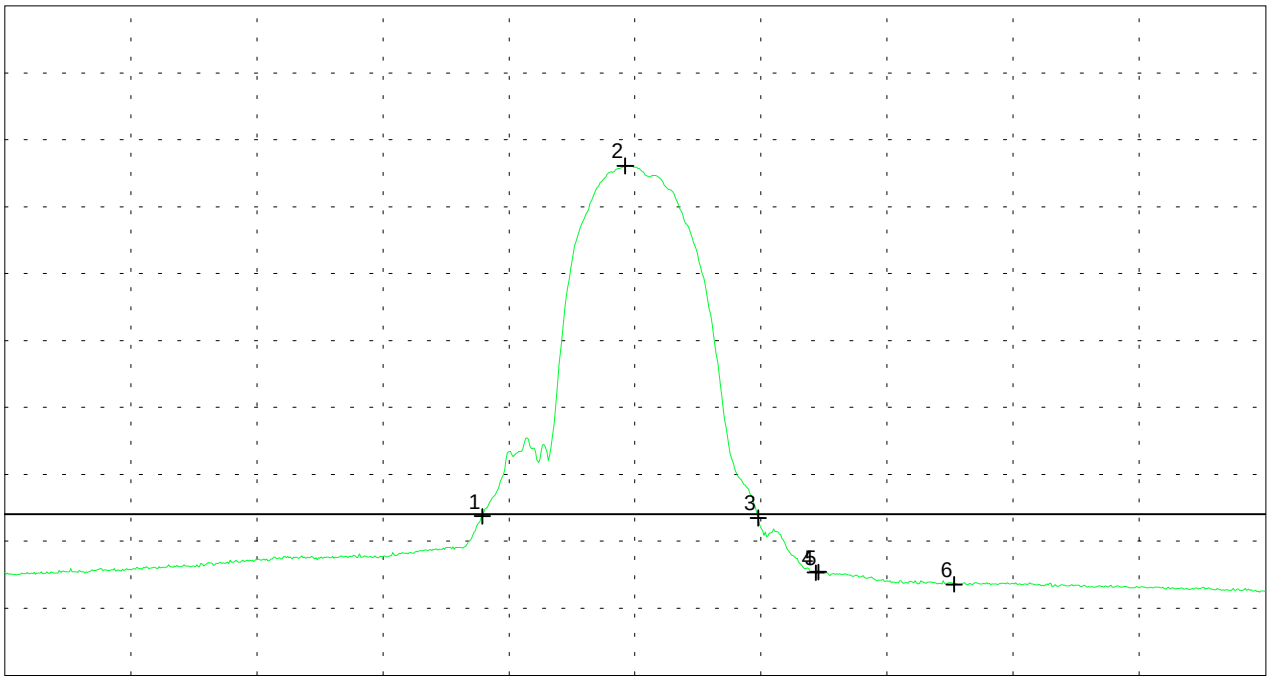
No. 1	2.452500 GHz	51.78 dBµV/m
No. 2	2.461500 GHz	88.67 dBµV/m
No. 3	2.472500 GHz	53.89 dBµV/m
No. 4	2.483500 GHz	42.03 dBµV/m
No. 5	2.486000 GHz	42.38 dBµV/m
No. 6	2.500000 GHz	42.15 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.443833 GHz	53.71 dBµV/m
No. 2	2.460833 GHz	106.10 dBµV/m
No. 3	2.476667 GHz	53.46 dBµV/m
No. 4	2.483500 GHz	45.31 dBµV/m
No. 5	2.483833 GHz	45.38 dBµV/m
No. 6	2.500000 GHz	43.55 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with f = 2.462 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4523	vertical	52.1	0.6	20.7	73.4	OB
2.4608	vertical	89.0	0.6	20.7	110.3	OB
2.4735	vertical	52.1	0.6	20.7	73.4	OB
2.4835	vertical	38.3	0.6	20.7	59.6	74
2.4988	vertical	41.0	0.6	20.7	62.4	74
2.5000	vertical	39.8	0.6	20.7	61.2	74
4.9241	vertical	20.8	0.9	27.3	49.0	74
7.3841	vertical	17.8	1.1	30.0	48.8	74

Note 1: 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 110.3 dBµV/m.

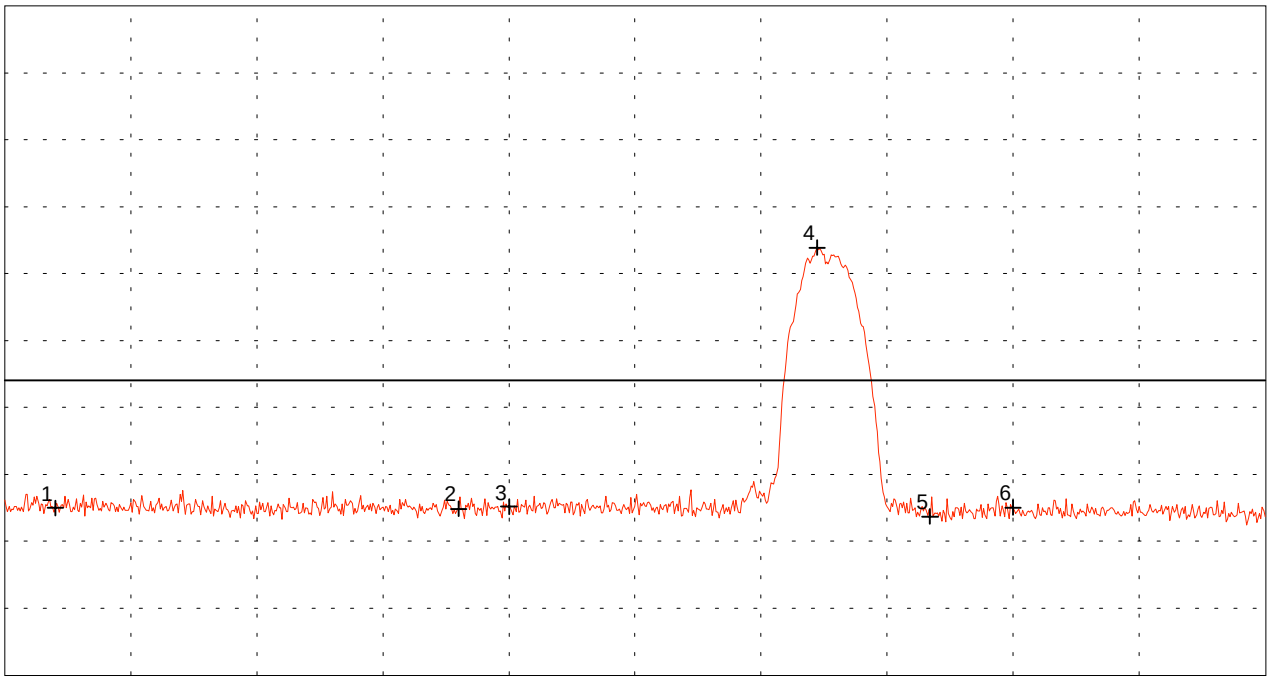
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiate emission with 11 Mbps (peak)

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.300 GHz Stop 2.550 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

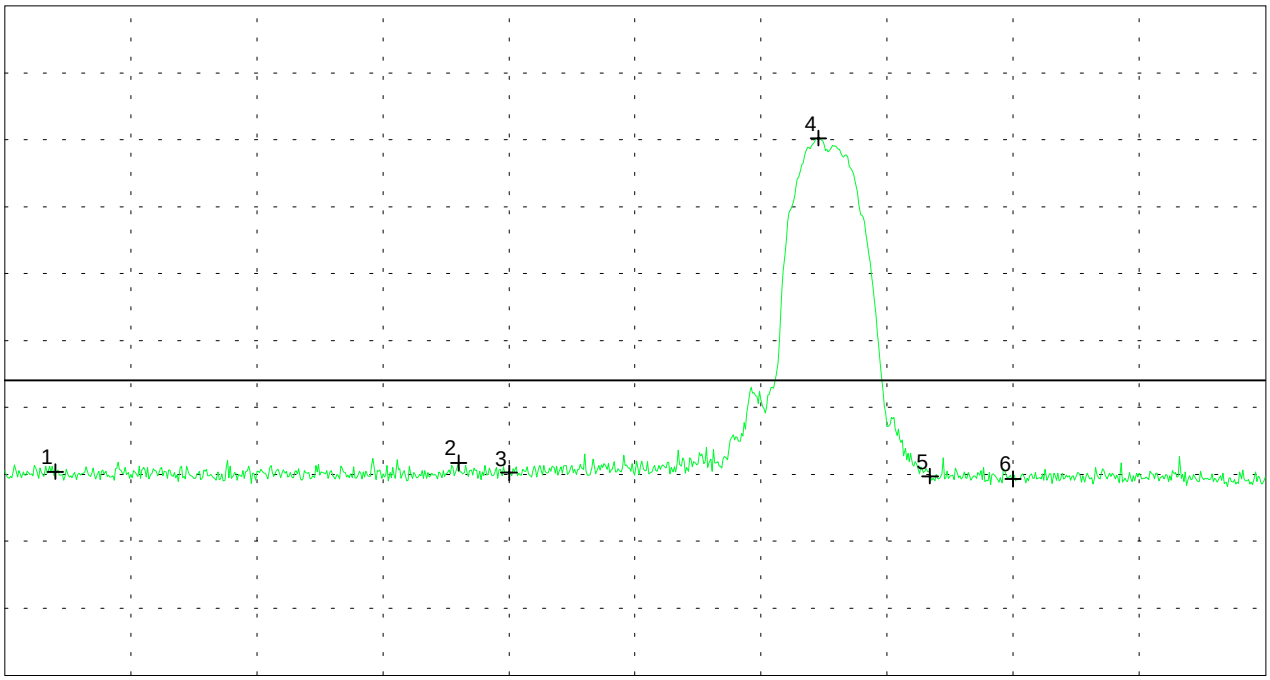
No. 1	2.310000 GHz	54.95 dBµV/m
No. 2	2.390000 GHz	54.85 dBµV/m
No. 3	2.400000 GHz	55.15 dBµV/m
No. 4	2.461111 GHz	93.85 dBµV/m
No. 5	2.483500 GHz	53.68 dBµV/m
No. 6	2.500000 GHz	55.03 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.300 GHz Stop 2.550 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

No. 1	2.310000 GHz	60.36 dBµV/m
No. 2	2.390000 GHz	61.70 dBµV/m
No. 3	2.400000 GHz	60.23 dBµV/m
No. 4	2.461389 GHz	110.23 dBµV/m
No. 5	2.483500 GHz	59.70 dBµV/m
No. 6	2.500000 GHz	59.29 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

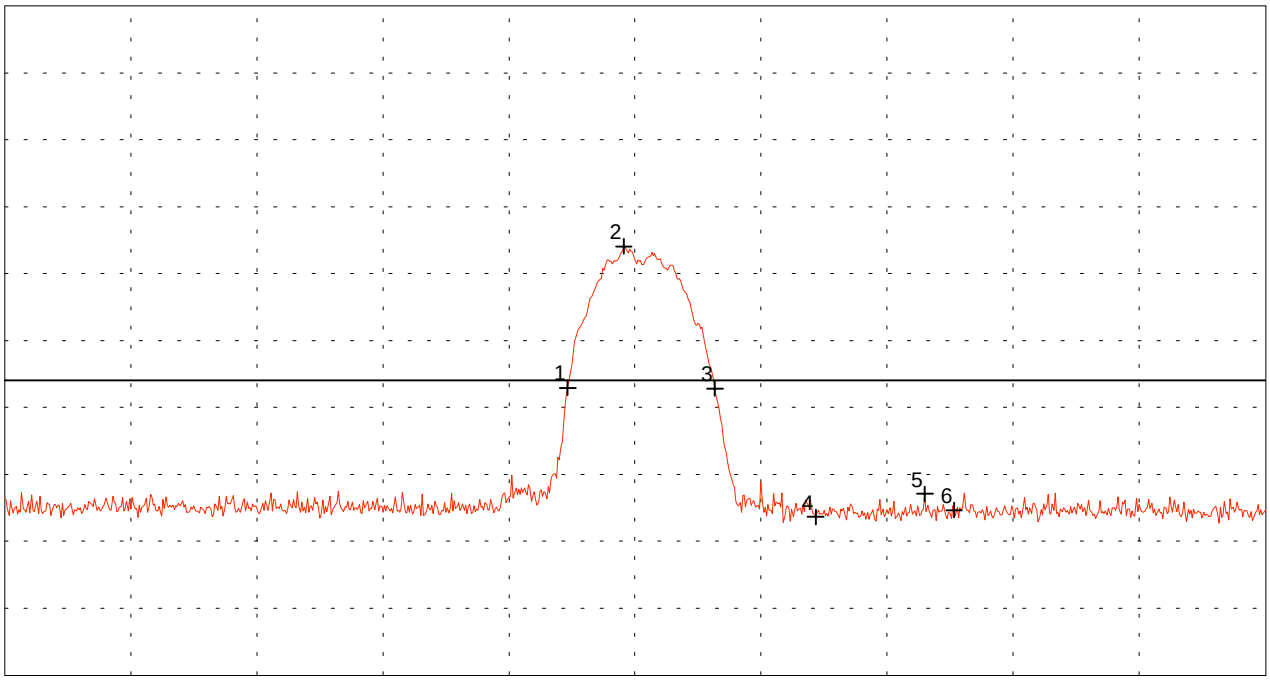
Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m
10 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 List

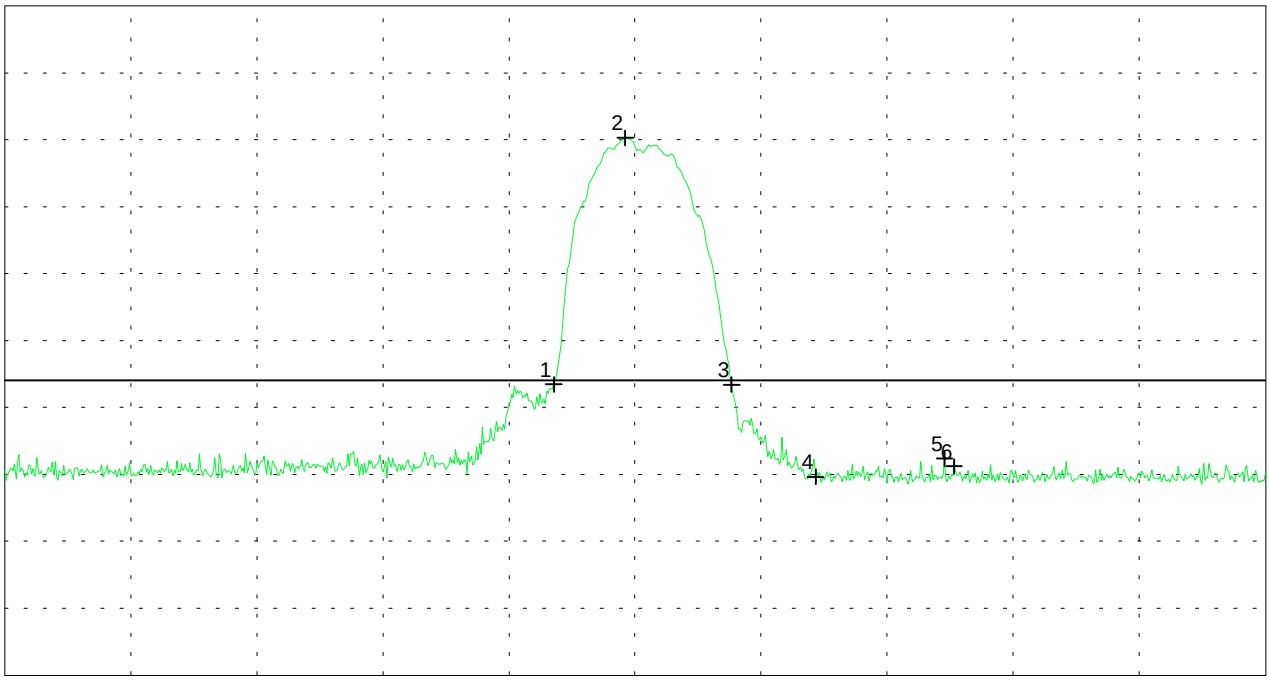
No. 1	2.454000 GHz	72.90 dBµV/m
No. 2	2.460667 GHz	94.06 dBµV/m
No. 3	2.471500 GHz	72.80 dBµV/m
No. 4	2.483500 GHz	53.63 dBµV/m
No. 5	2.496500 GHz	57.08 dBµV/m
No. 6	2.500000 GHz	54.65 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

No. 1	2.452333 GHz	73.43 dBµV/m
No. 2	2.460833 GHz	110.28 dBµV/m
No. 3	2.473500 GHz	73.41 dBµV/m
No. 4	2.483500 GHz	59.64 dBµV/m
No. 5	2.498833 GHz	62.36 dBµV/m
No. 6	2.500000 GHz	61.17 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with f = 2.462 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4437	vertical	32.4	0.6	20.7	53.7	OB
2.4593	vertical	85.4	0.6	20.7	106.7	OB
2.4775	vertical	32.5	0.6	20.7	53.8	OB
2.4835	vertical	24.0	0.6	20.7	45.3	54
2.4878	vertical	24.2	0.6	20.7	45.5	54
2.5000	vertical	22.6	0.6	20.7	43.9	54
4.9239	vertical	18.7	0.9	27.3	46.9	54
7.3853	vertical	10.9	1.1	30.0	42.0	54

Note 1: 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 106.7 dBµV/m.

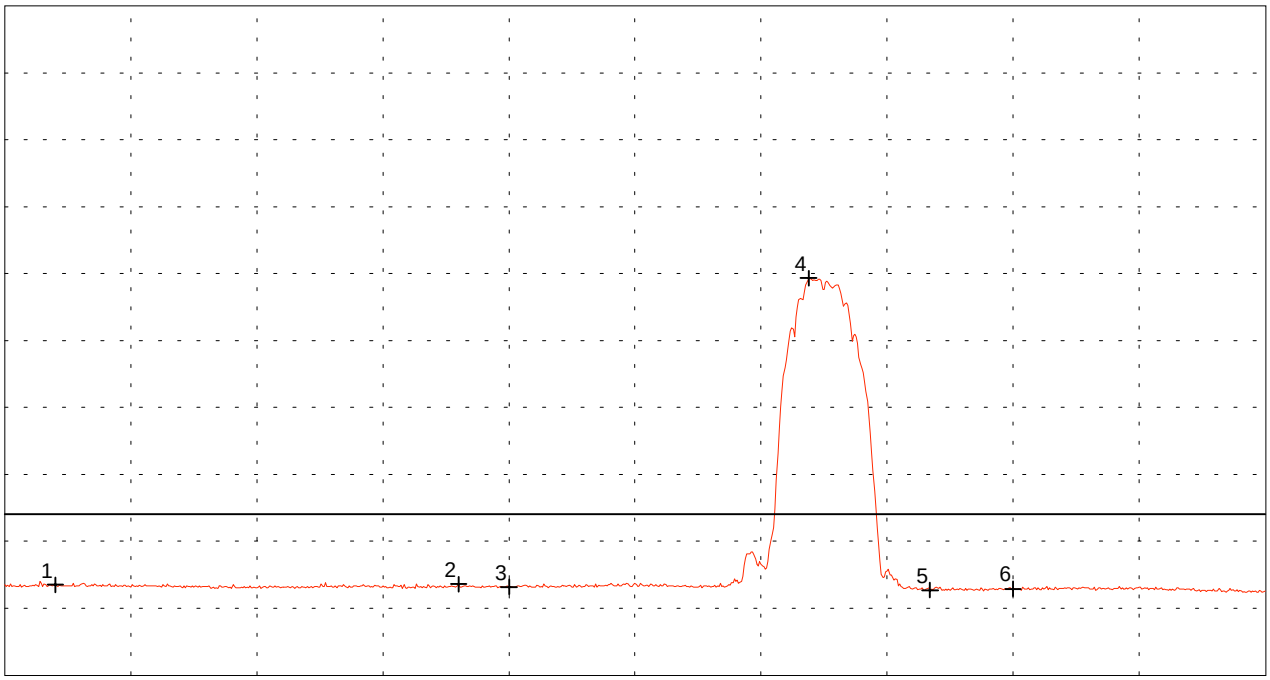
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.300 GHz Stop 2.550 GHz
RBW 1 MHz VBW 3 kHz SWP 260 ms

Multi Marker List

No. 1	2.310000 GHz	43.47 dBµV/m
No. 2	2.390000 GHz	43.58 dBµV/m
No. 3	2.400000 GHz	43.17 dBµV/m
No. 4	2.459444 GHz	89.31 dBµV/m
No. 5	2.483500 GHz	42.69 dBµV/m
No. 6	2.500000 GHz	42.86 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

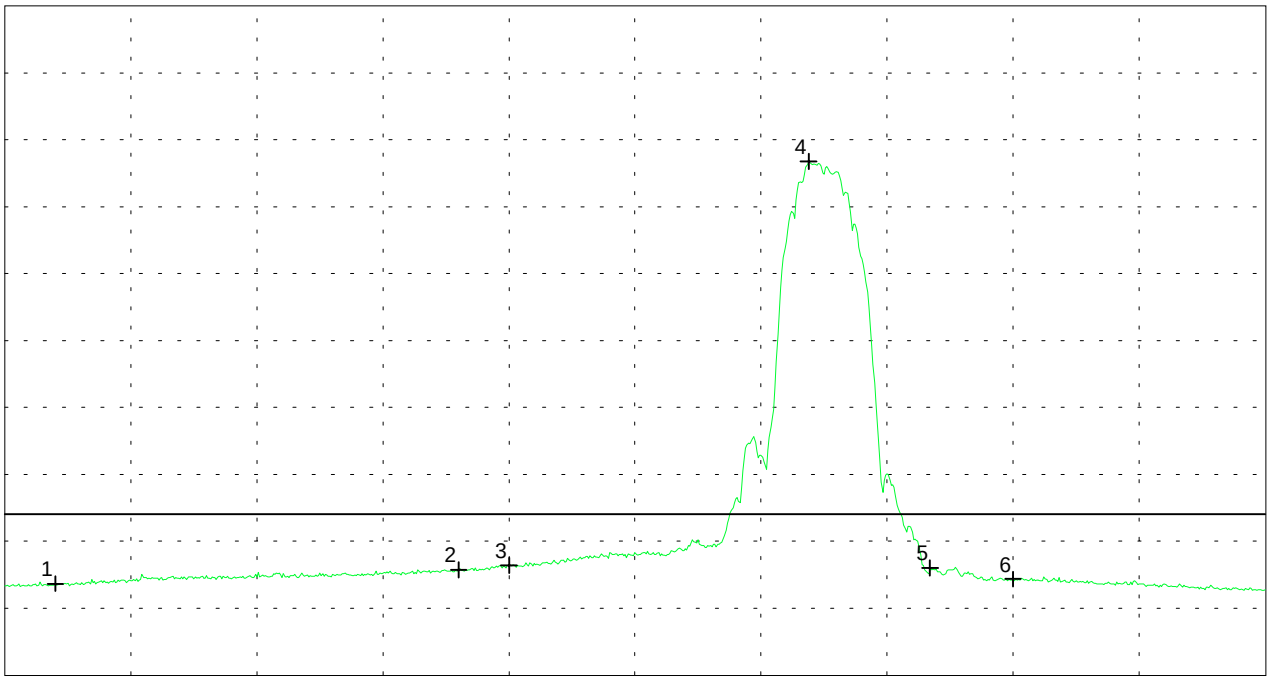
Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	
Overview scan checking restricted bands around operation band (acc. to §15.205)	

Ref.Level 130 dBµV/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.550 GHz
SWP 260 ms

Multi Marker List

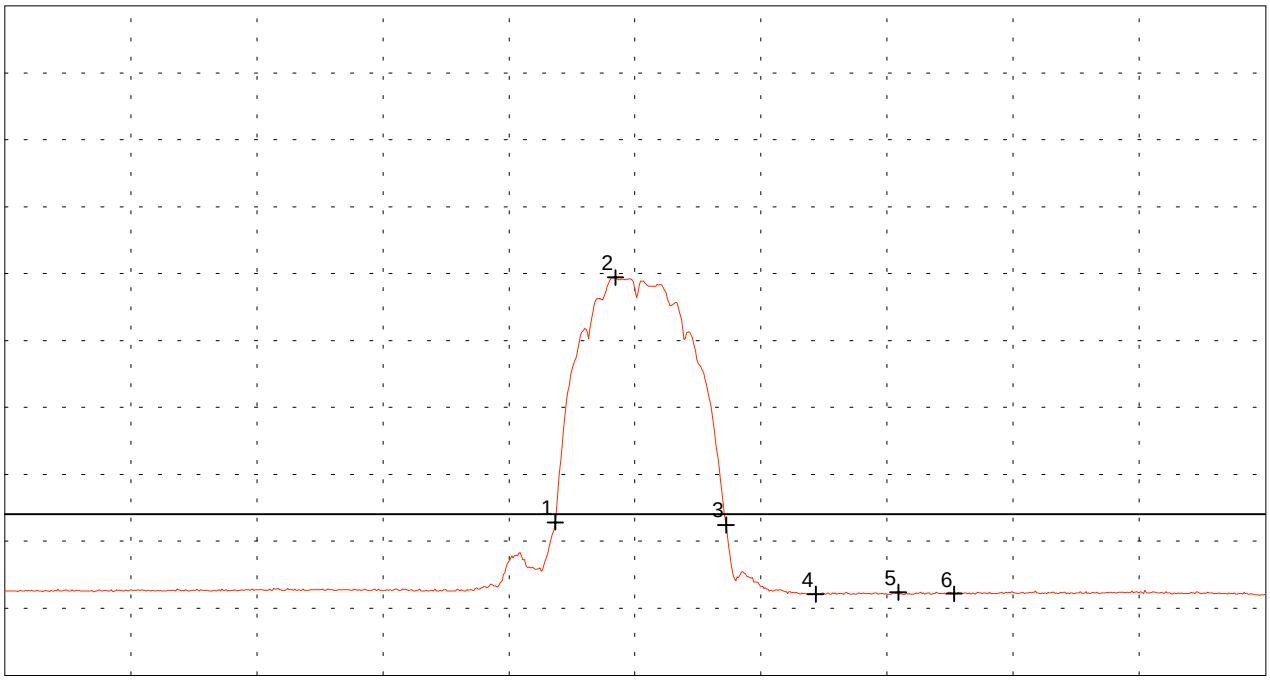
No. 1	2.310000 GHz	43.63 dBµV/m
No. 2	2.390000 GHz	45.69 dBµV/m
No. 3	2.400000 GHz	46.37 dBµV/m
No. 4	2.459444 GHz	106.76 dBµV/m
No. 5	2.483500 GHz	45.99 dBµV/m
No. 6	2.500000 GHz	44.34 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

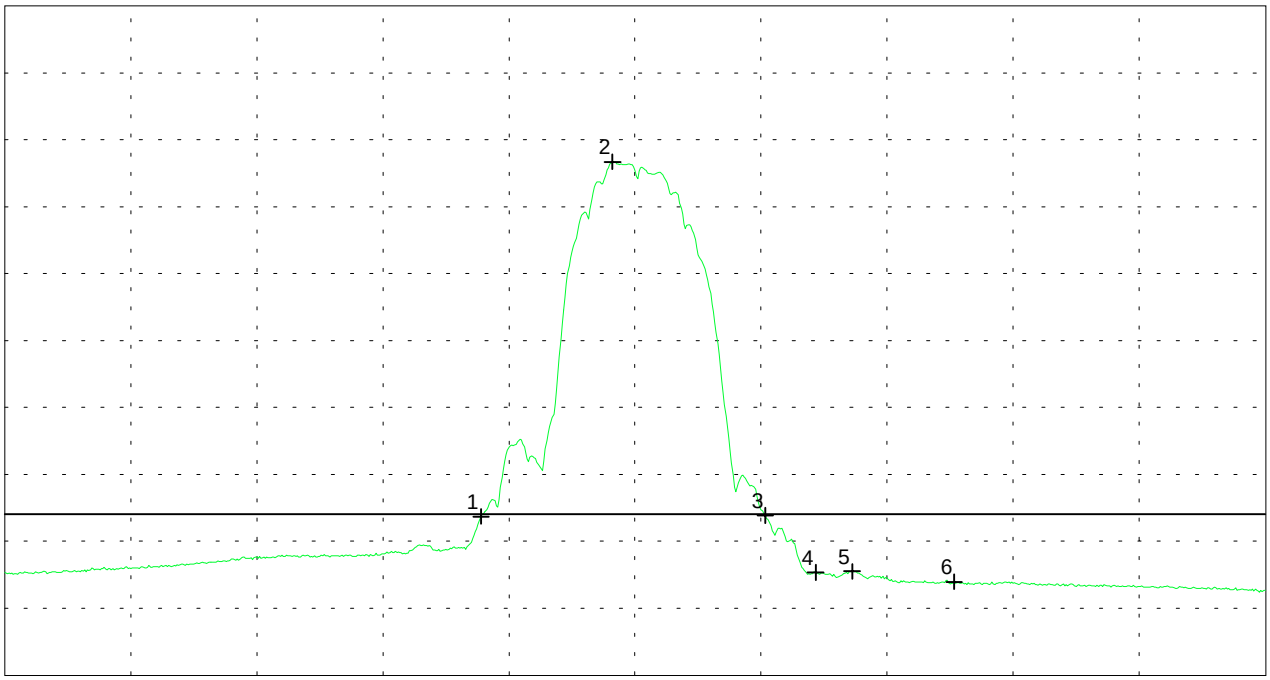
No. 1	2.452500 GHz	52.82 dBµV/m
No. 2	2.459667 GHz	89.39 dBµV/m
No. 3	2.472833 GHz	52.39 dBµV/m
No. 4	2.483500 GHz	42.08 dBµV/m
No. 5	2.493333 GHz	42.36 dBµV/m
No. 6	2.500000 GHz	42.13 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT34333360 / 1202	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.443667 GHz	53.69 dBµV/m
No. 2	2.459333 GHz	106.71 dBµV/m
No. 3	2.477500 GHz	53.84 dBµV/m
No. 4	2.483500 GHz	45.33 dBµV/m
No. 5	2.487833 GHz	45.51 dBµV/m
No. 6	2.500000 GHz	43.93 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-20086-1
Date: 02/04/2002	Page 104 of 116 Pages

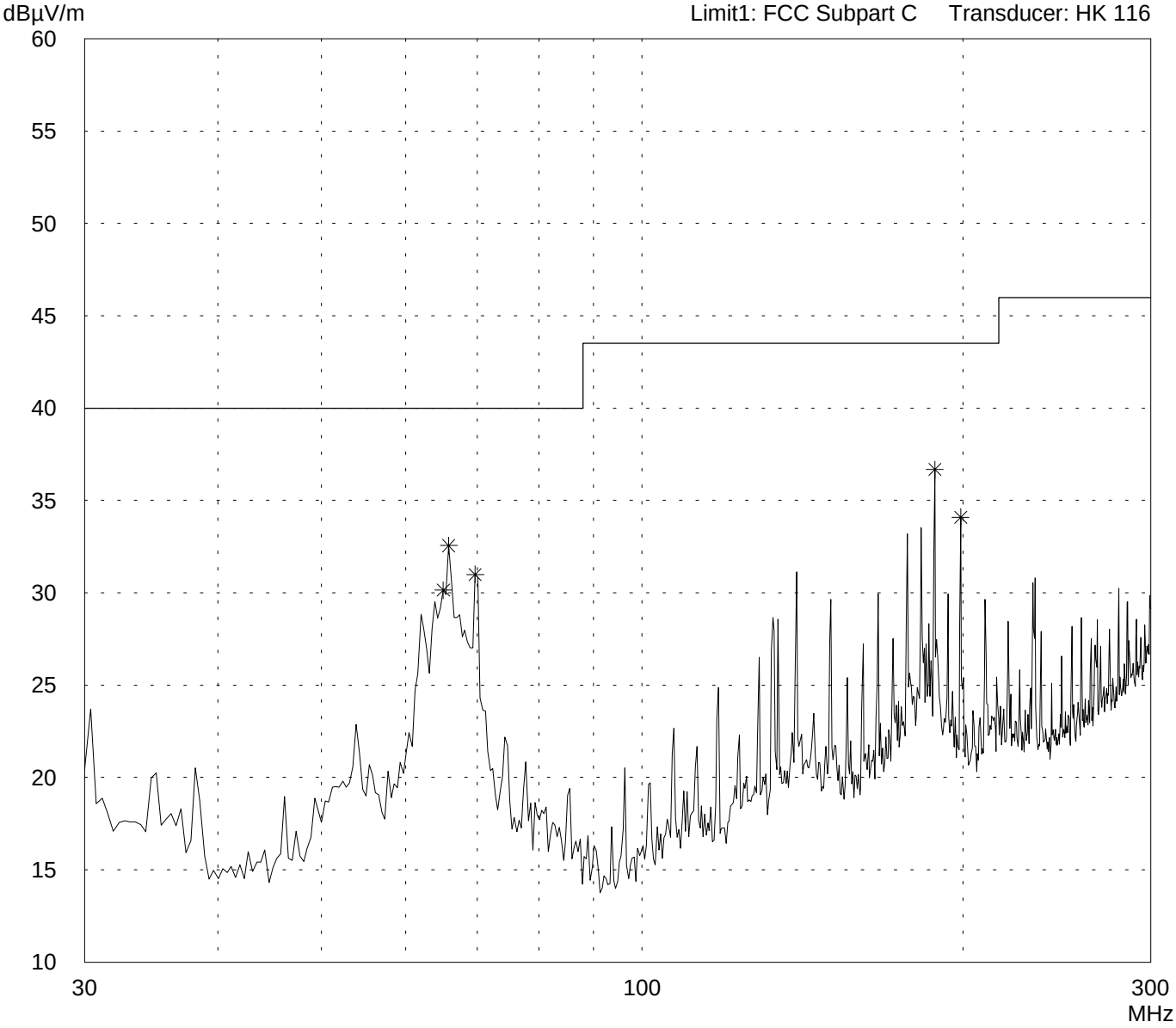
Test results for

Receive (RX) mode

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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



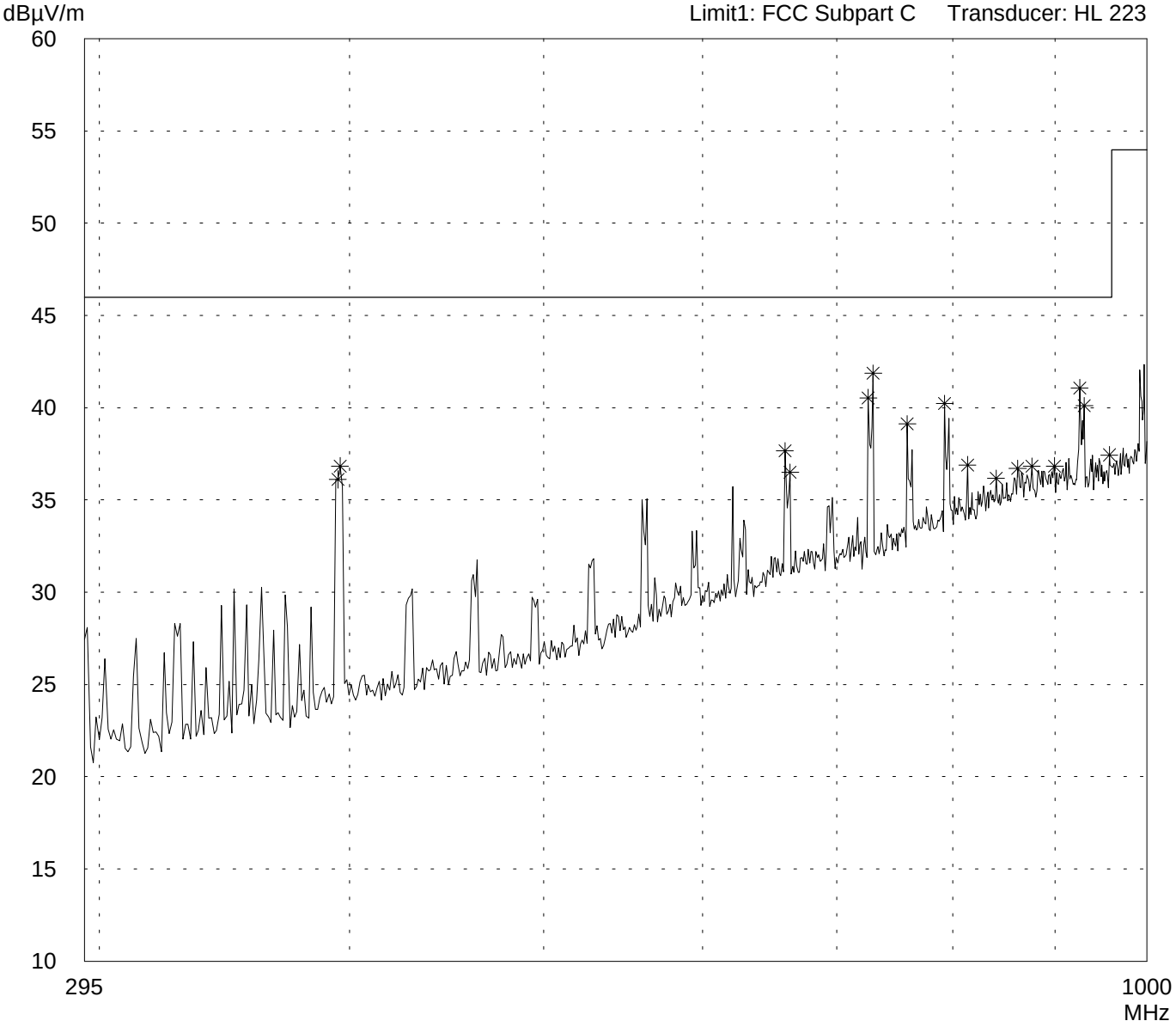
Result: Prescan	Project file: 56305-20086-1

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

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

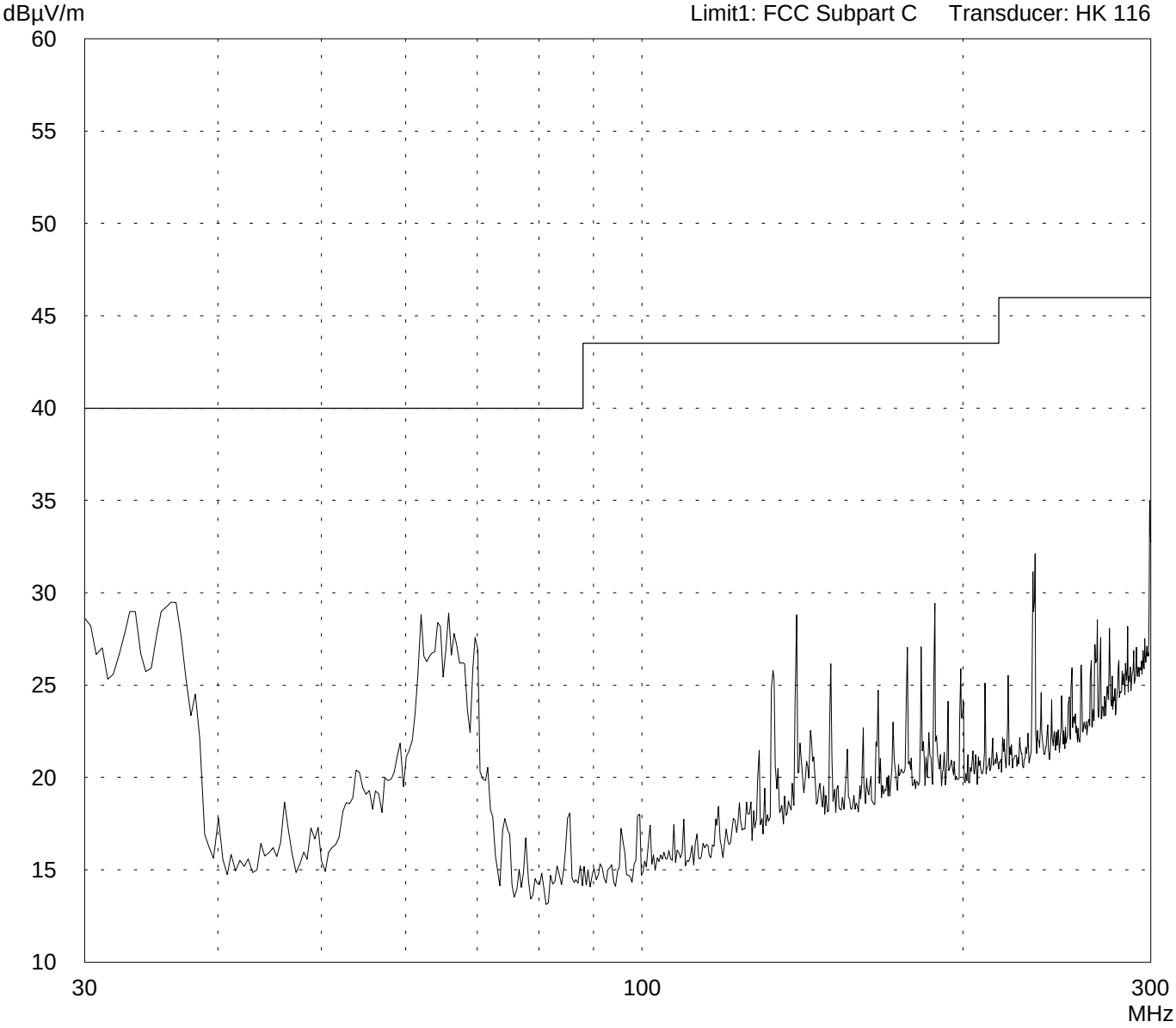


Result: Prescan	Project file: 56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

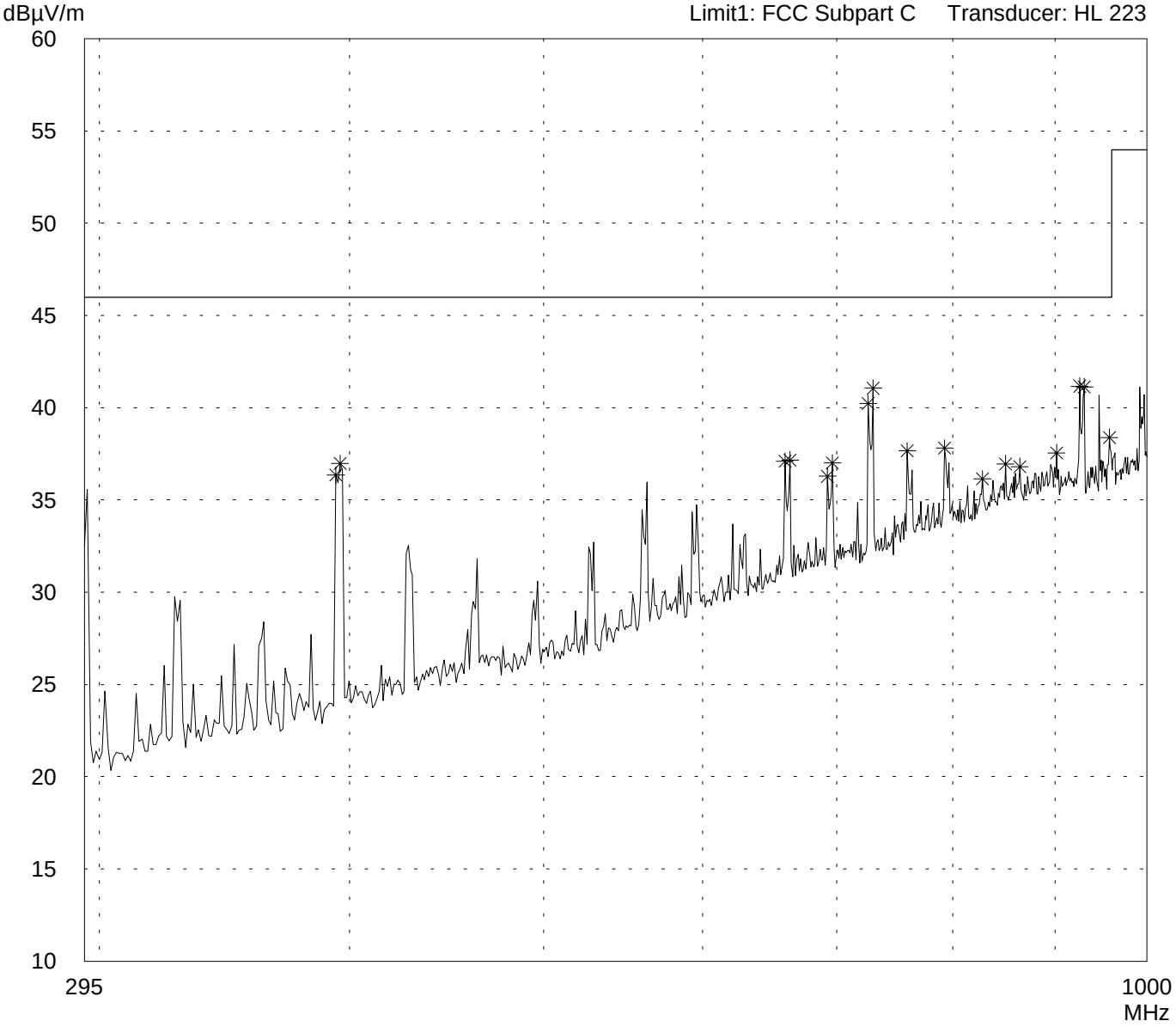


Result: Prescan	Project file: 56305-20086-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/04/2002 / Operator: R. Heller	
Test performed: automatically / File name:	

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

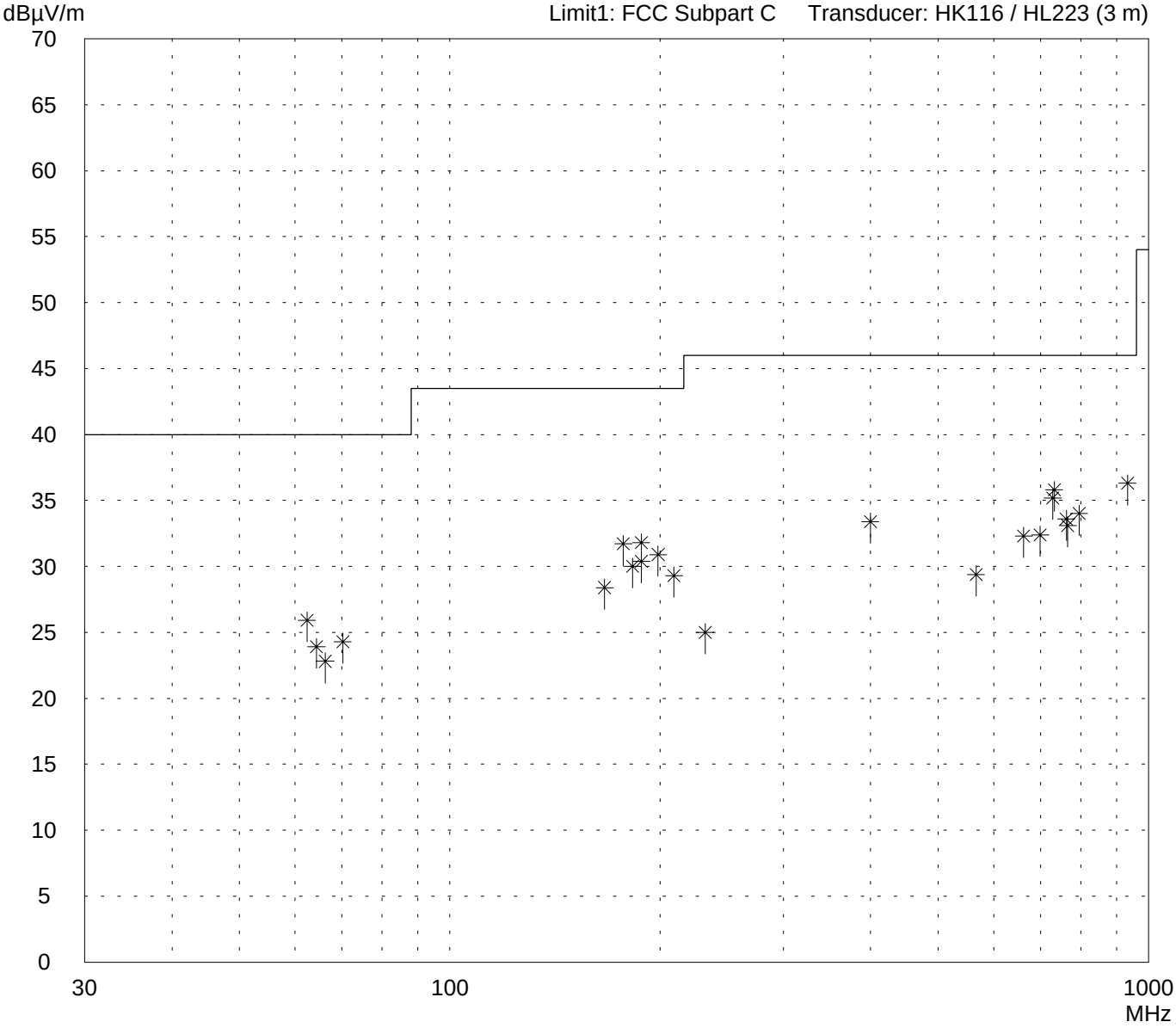


Result: Prescan	Project file: 56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 02/05/2002 / Operator: R. Heller	
Test performed: by hand / File name:	

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



Result: Limit kept	Project file: 56305-20086-1

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-H-FC with Telex 2.4 GHz WLAN

Serial no.:
01UT34333360 / 1202

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 02/05/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- monitor switched off

- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC

- operating with bit rate 11 Mbps

- 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*
62.43	15.0	10.9	25.9	40.0	
64.41	13.0	10.9	23.9	40.0	
66.33	12.0	10.8	22.8	40.0	
70.24	13.5	10.8	24.3	40.0	
166.51	11.5	16.9	28.4	43.5	
177.11	14.0	17.7	31.7	43.5	
182.48	12.0	18.0	30.0	43.5	
187.85	13.5	18.3	31.8	43.5	
188.03	12.0	18.4	30.4	43.5	
198.58	12.0	18.9	30.9	43.5	
209.31	10.0	19.3	29.3	43.5	
232.03	5.0	20.0	25.0	46.0	
399.66	11.0	22.4	33.4	46.0	
565.99	2.5	26.9	29.4	46.0	
662.81	2.5	29.8	32.3	46.0	
699.50	1.5	30.9	32.4	46.0	
729.08	4.0	31.2	35.2	46.0	
732.87	4.5	31.3	35.8	46.0	
762.21	2.0	31.6	33.6	46.0	
766.16	1.5	31.6	33.1	46.0	
795.27	2.0	32.0	34.0	46.0	
932.70	2.0	34.3	36.3	46.0	

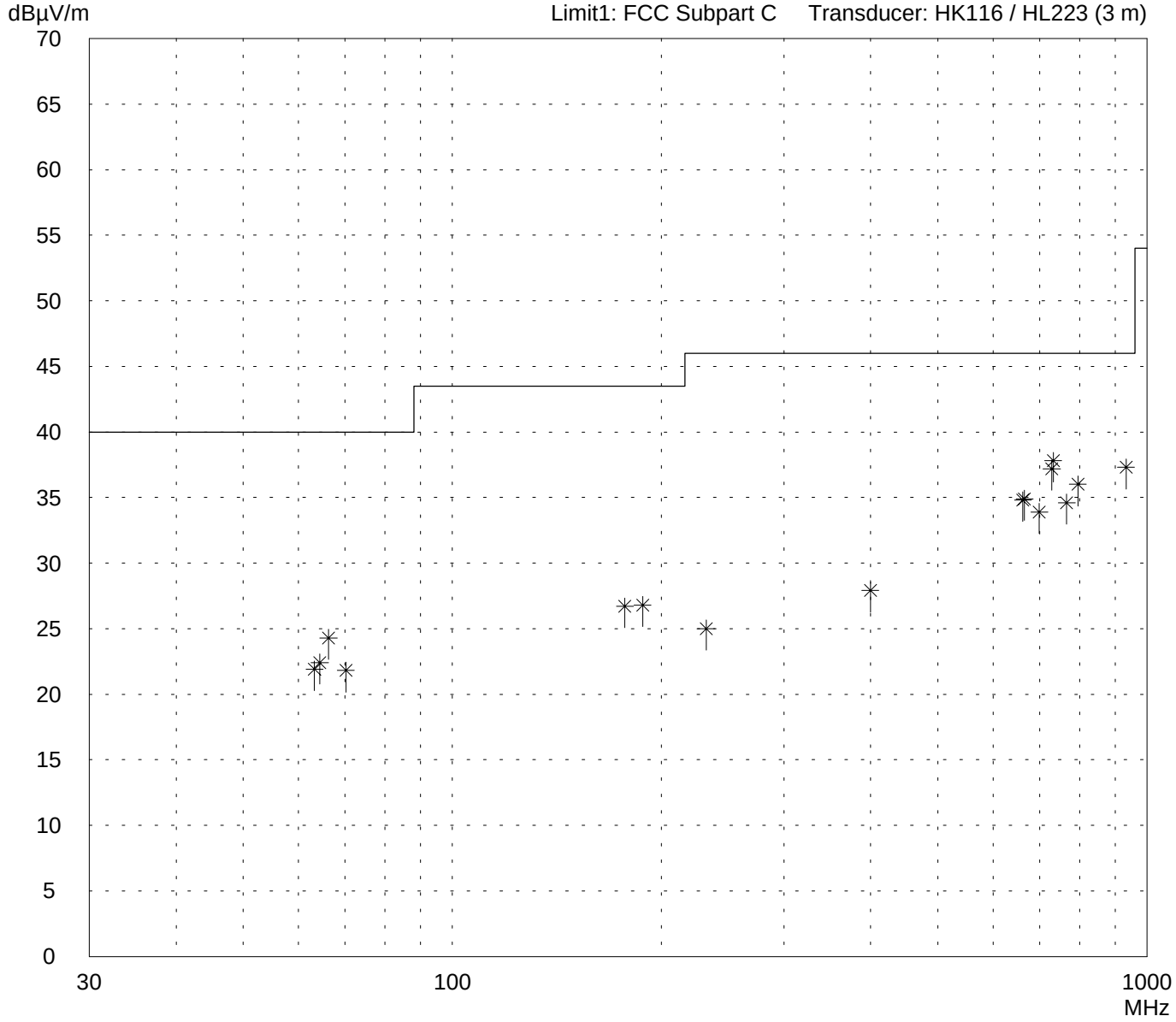
Result:
Limit kept

Project file:
56305-20086-1

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

Model: PC24E-H-FC with Telex 2.4 GHz WLAN	Mode:
Serial no.: 01UT34333360 / 1202	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - monitor switched off - with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 02/05/2002 / Operator: R. Heller	
Test performed: by hand / File name:	

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



Result: Limit kept	Project file: 56305-20086-1

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-H-FC with Telex 2.4 GHz WLAN

Serial no.:
01UT34333360 / 1202

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 02/05/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- monitor switched off

- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC

- operating with bit rate 11 Mbps

- 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*
63.30	11.0	10.9	21.9	40.0	
64.41	11.5	10.9	22.4	40.0	
66.33	13.5	10.8	24.3	40.0	
70.24	11.0	10.8	21.8	40.0	
177.12	9.0	17.7	26.7	43.5	
187.86	8.5	18.3	26.8	43.5	
232.03	5.0	20.0	25.0	46.0	
399.66	5.5	22.4	27.9	46.0	
662.81	5.0	29.8	34.8	46.0	
666.17	5.0	29.9	34.9	46.0	
699.50	3.0	30.9	33.9	46.0	
729.08	6.0	31.2	37.2	46.0	
732.87	6.5	31.3	37.8	46.0	
766.16	3.0	31.6	34.6	46.0	
795.27	4.0	32.0	36.0	46.0	
932.70	3.0	34.3	37.3	46.0	

Result:
Limit kept

Project file:
56305-20086-1

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

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- RX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
1.1956	vertical	19.1	0.5	26.3	45.9	74
1.3271	vertical	19.7	0.5	26.5	46.7	74
1.5938	horizontal	17.1	0.5	27.2	44.9	74
2.2693	vertical	16.1	0.6	29.6	46.3	74
2.4027	horizontal	15.8	0.6	29.8	46.2	74
2.5253	vertical	15.5	0.6	30.6	46.8	74
2.7980	vertical	18.0	0.7	23.7	42.3	74

Result: The limits are kept

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

Model: PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 01UT34333360
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/04/2002
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- RX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
1.1938	vertical	< 11.4	0.5	26.2	< 38.1	54
1.3289	vertical	< 13.5	0.5	26.5	< 40.5	54
1.5938	horizontal	< 10.0	0.5	27.2	< 37.7	54
2.4009	vertical	< 14.4	0.6	20.7	< 35.8	54

Result: The limits are kept

12. Additional Information supplementary to the Test Report

Item	Description	Collected in
1	Photographs of EUT and Host	Annex A
2	Photographs Taken During Testing	Annex B