

# CETECOM ICT Services GmbH

Radio Satellite Communication

Untertürkheimer Straße 6-10 . D-66117 Saarbrücken

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Telefax: -9075

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RSC11

issue test report consist of 36 Pages

Page 1 (36)

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## **Akkreditiertes Prüflaboratorium**

**DAR-Registriernummer:  
TTI-P-G 166/98-00 vom 18.09.98**

**Test report no.: 2\_2100-D/00  
FCC Part 15.247  
8505001**

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### **1 General information**

#### **1.1 Notes**

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

#### **1.2 Testing laboratory**

CETECOM ICT Services GmbH

66117 Saarbrücken

Untertürkheimer Straße 6 - 10

Deutschland

Telephone: + 49 681 598 - 9100

Telefax : + 49 681 598 - 9075

E-mail : Michael.Berg@ict.cetecom.de

Internet : www.cetecom.de

**Accredited testing laboratory**

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

# CETECOM ICT Services GmbH

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## 1.3 Details of applicant

**Name** : Ericsson Radio Systems BV  
**Street** : Nieuw Amsterdamsestraat 40  
**City** : 7801 CA Emmen  
**Country** : The Netherlands  
**Telephone** : +31 591 637 777  
**Telefax** : +31 591 632 001  
**Contact** : Mr. Ron Linde  
**Telephone** : +31 591 637 777

## 1.4 Application details

Date of receipt of application : 06.05.00  
Date of receipt of test item : 11.07.00  
Date of test : 11.-12.07.00

## 1.5 Test item

Type of equipment : **RLAN**  
Type designation : **8505001**  
Manufacturer : applicant  
Street :  
City :  
Country :  
Serial number : HW# KRY 901 28/01 R1 ; S/N: 0080370F2580

### Additional informations: :

Frequency : 2402 – 2480 MHz  
Type of modulation : 24M0FXD (FHSS)  
Number of channels : 79  
Antenna : integral antenna  
Power supply : 1.1 – 1.6 V DC NiMH accu  
Output power : max. 1 mW  
Type of equipment : Temperature range : -10°C - +55°C  
Average time of occupancy within a 30 second period : < 0.4 second

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

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## 2 Technical test

### 2.1 Summary of test results

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

Technical responsibility for area of testing :

18.07.00 RSC 8411 Berg



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Date	Section	Name	Signature
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Technical responsibility for area of testing :

18.07.00 RSC8414 Ames



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Date	Section	Name	Signature
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## 2.2 Testreport

**TEST REPORT**

**Testreport no. : 2\_2100-D/00**

## TEST REPORT REFERENCE

## LIST OF MEASUREMENTS

<b>Paragraph</b>	<b>PARAMETER TO BE MEASURED</b>	<b>PAGE</b>
	<b>Transmitter parameters</b>	
§ 15.247 (a)(1)	20 dB Bandwidth	7
§ 15.247 (b)(1)	Maximum peak output power	11
§ 15.247 (c)(1)	Emission limitations	12
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	<b>Receiver parameters</b>	
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Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

**20 dB BANDWIDTH**

**SUBCLAUSE § 15.247 (a)(1)**

TEST CONDITIONS		20 dB BANDWIDTH ( kHz )		
		2402	2440	2480
Frequency (MHz)				
$T_{nom}( 23 )^{\circ}C$	$V_{nom}( 1.3 )V$	961.92	905.81	945.89
Measurement uncertainty		±3dB		

**LIMIT**

**SUBCLAUSE §15.247(a) (1) (ii)**

**Occupied bandwidth shall not exceed 1000 kHz**

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

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Equipment under test : 8505001

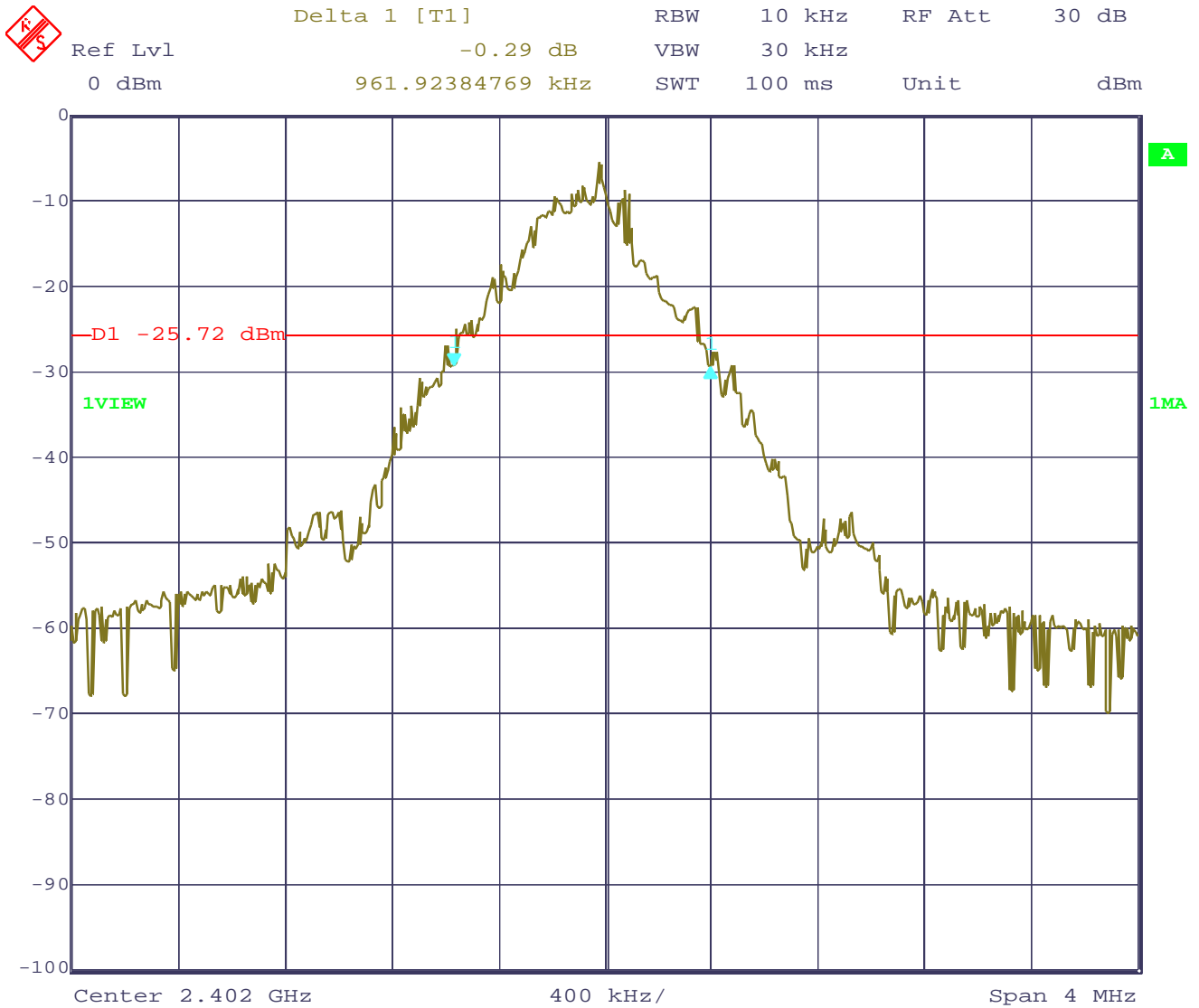
Ambient temperature : 23°C

Relative humidity : 50%

20 dB BANDWIDTH

SUBCLAUSE § 15.247 (a)(1)

2402 MHz



Date: 11.JUL.2000 10:34:23

LIMIT

SUBCLAUSE §15.247(a) (1) (ii)

Occupied bandwidth shall not exceed 1000 kHz

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



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Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## 20 dB BANDWIDTH

## SUBCLAUSE § 15.247 (a)(1)

2440 MHz



Delta 1 [T1]	RBW	10 kHz	RF Att	30 dB
Ref Lvl	-4.08 dB	VBW	30 kHz	
0 dBm	905.81162324 kHz	SWT	100 ms	Unit dBm



Date: 11.JUL.2000 10:32:42

## LIMIT

## SUBCLAUSE §15.247(a) (1) (ii)

Occupied bandwidth shall not exceed 1000 kHz

## REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

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Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

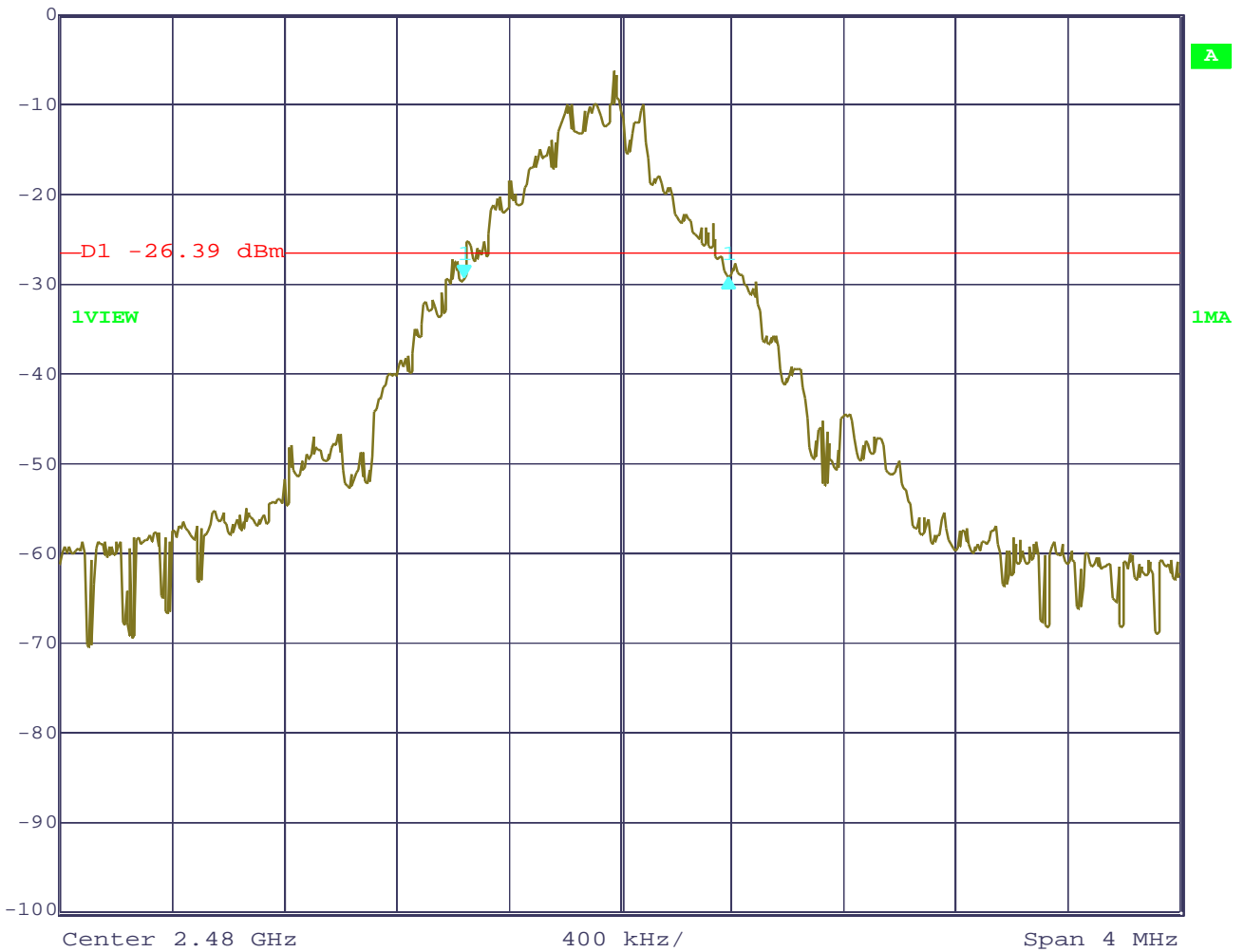
## 20 dB BANDWIDTH

## SUBCLAUSE § 15.247 (a)(1)

2480 MHz



Delta 1 [T1]	RBW	10 kHz	RF Att	30 dB
0.09 dB	VBW	30 kHz		
945.89178357 kHz	SWT	100 ms	Unit	dBm
Ref Lvl				
0 dBm				



Date: 11.JUL.2000 10:31:04

## LIMIT

## SUBCLAUSE §15.247(a) (1) (ii)

Occupied bandwidth shall not exceed 1000 kHz

## REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

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Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## MAXIMUM PEAK OUTPUT POWER

SUBCLAUSE § 15.247 (b) (1)

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (W)		
		2402	2440	2482
Frequency (MHz)				
T <sub>nom</sub> ( 23 )°C	V <sub>nom</sub> ( 1.6 )V	0.00167 (AV:0.00092)	0.00085 (AV:0.00066)	0.00072 (AV:0.00055)
Maximum deviation from output power under extreme test conditions (dBc)		+0.60	+0.41	+0.20
Measurement uncertainty		±3dB		

## LIMIT

SUBCLAUSE § 15.247 (b) (1)

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

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

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Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)

EMISSION LIMITATIONS					
f (MHz)	polarization	amplitude of emission (dBm)	limit max. allowed emission power	actual attenuation below frequency of operation (dB)	results
2402	vertical	+2.23	30.0 dBm	-	Operating frequency
4804	vertical	PK:-55.3 AV:-58.6	-20 dBc	57.53	complies
7206	vertical	PK:-64.6 AV:-66.8	-20 dBc	66.83	complies
2440	vertical	-0.70	30 dBm	-	Operating frequency
4880	vertical	PK:-57.2 AV:-59.9	-20 dBc	56.40	complies
					complies
2480	vertical	-1.33	30 dBm		Operating frequency
4960	vertical	PK:-54.7 AV:-57.3	-20 dBc	53.37	complies
7440	vertical	PK:-65.9 AV:-67.4	-20 dBc	64.57	complies
Measurement uncertainty		± 3dB			

RBW: 100 kHz

VBW: 100 KHz

all measurements were done up to 25 GHz

### LIMITS

### SUBCLAUSE § 15.247 (c)

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

### REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

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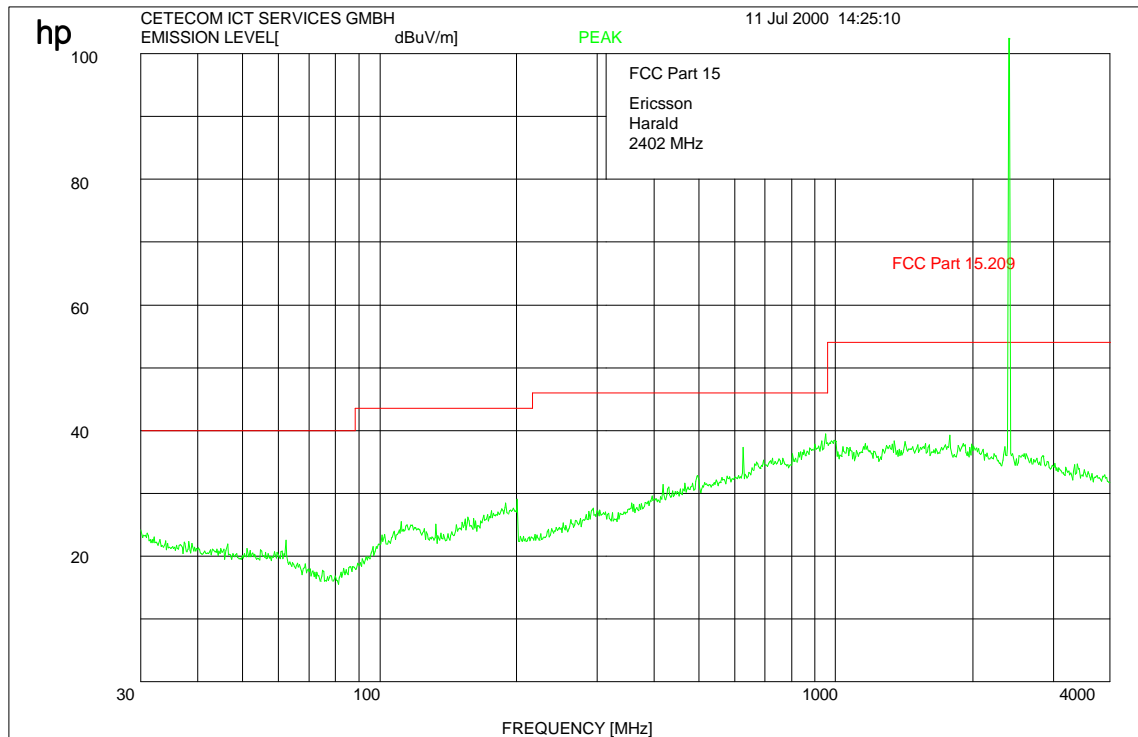
Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

EMISSION LIMITATIONS (Transmitter)  
2402 MHz

SUBCLAUSE § 15.247 (c) (1)



Settings: < 1 GHz : Quasi Peak (RBW:120 kHz, VBW: 1MHz)  
> 1 GHz : Peak and Average (RBW: 1MHz / VBW: 10 Hz)

## LIMITS

SUBCLAUSE § 15.247 (c)

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

## REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

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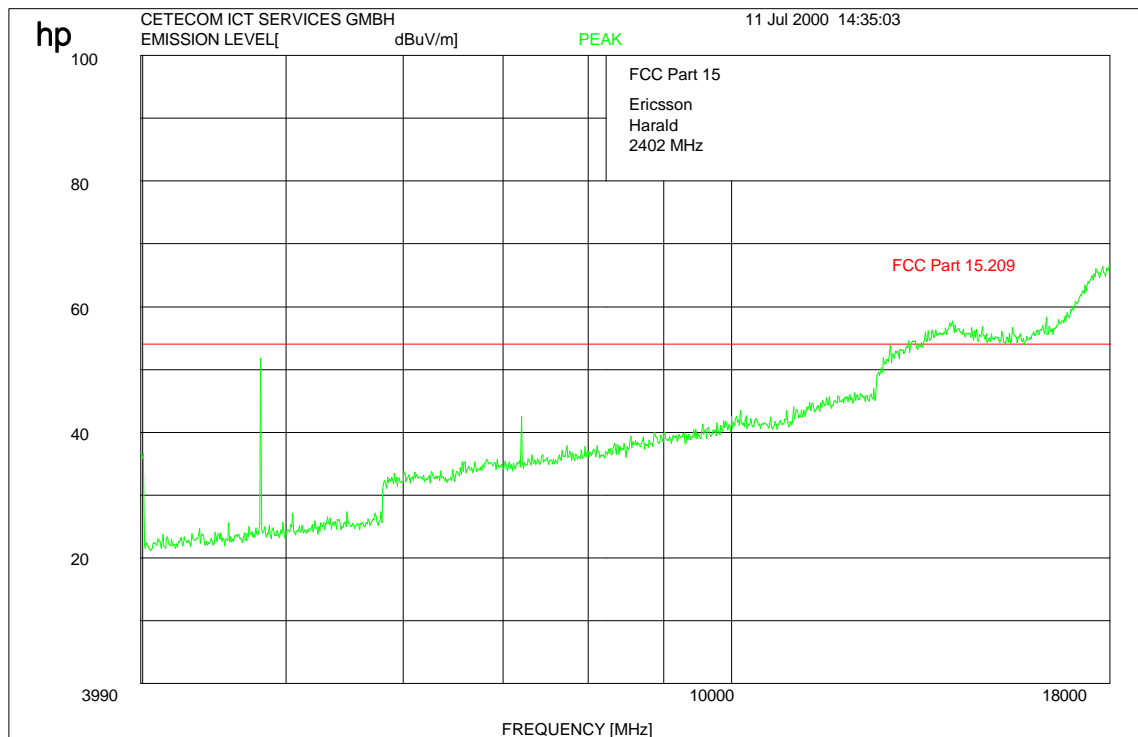
Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)

2402 MHz



Settings: < 1 GHz : Quasi Peak (RBW:120 kHz, VBW: 1MHz)  
> 1 GHz : Peak and Average (RBW: 1MHz / VBW: 10 Hz)

## LIMITS

## SUBCLAUSE § 15.247 (c)

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

## REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

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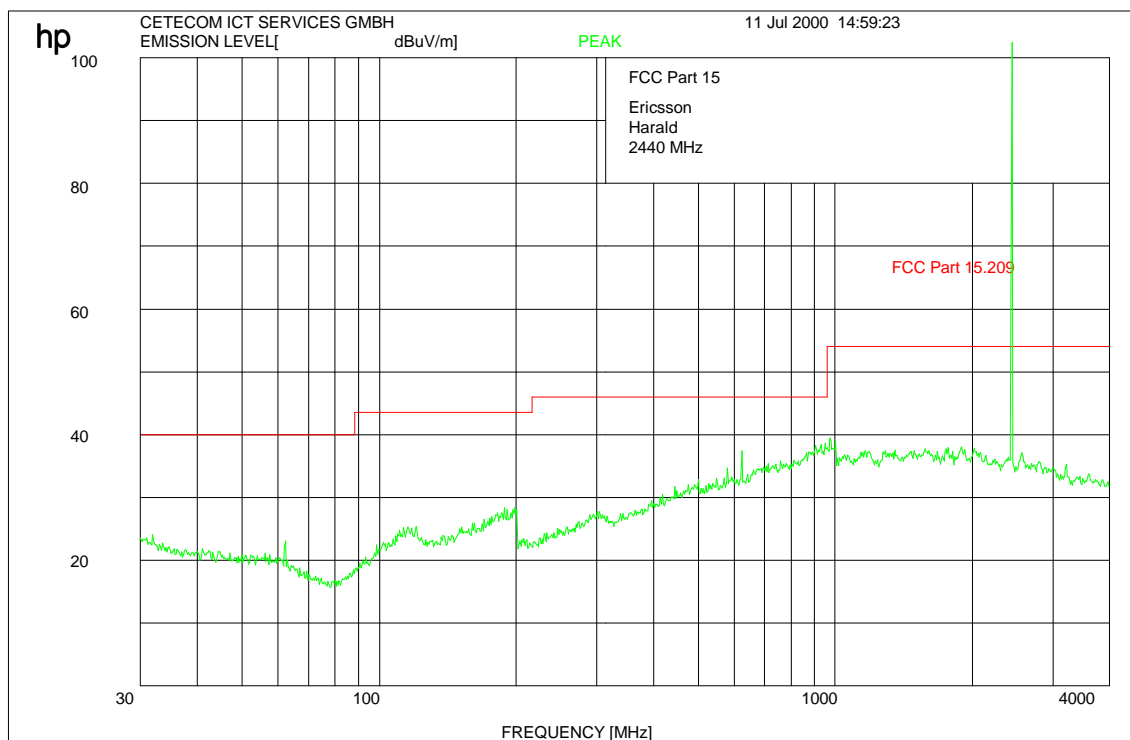
Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)

2440 MHz



Settings: < 1 GHz : Quasi Peak (RBW:120 kHz, VBW: 1MHz)  
> 1 GHz : Peak and Average (RBW: 1MHz / VBW: 10 Hz)

## LIMITS

## SUBCLAUSE § 15.247 (c)

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

## REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

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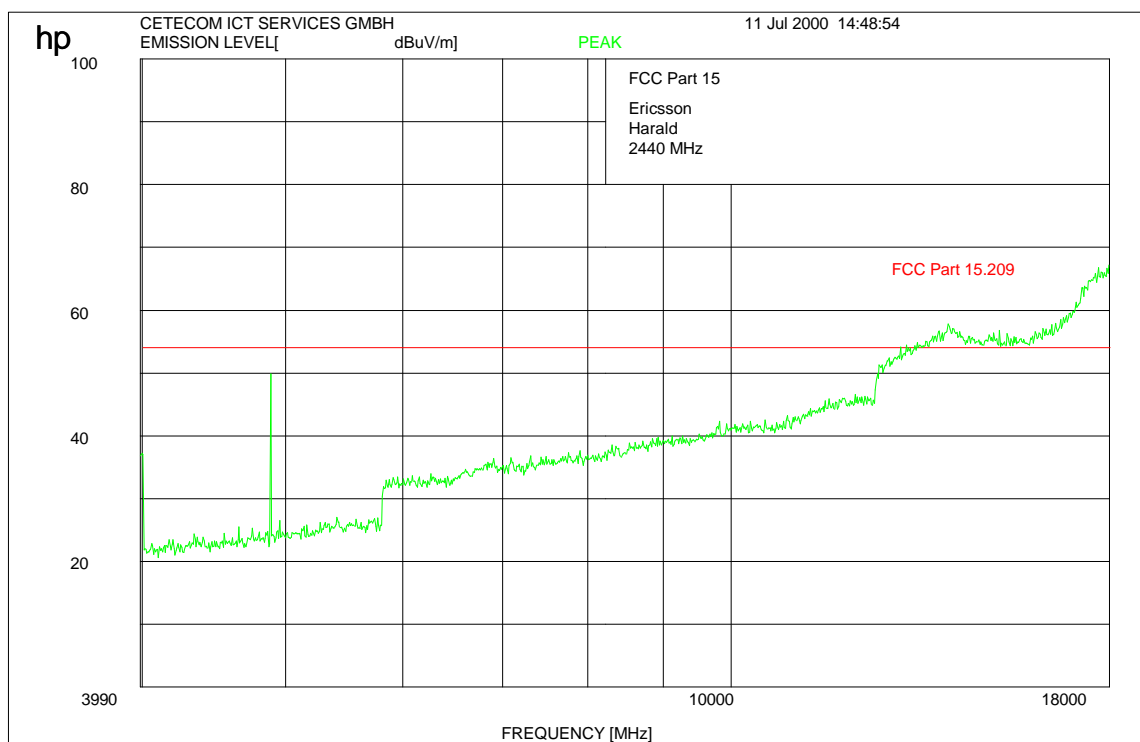
Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)

2440 MHz



Settings:

< 1 GHz : Quasi Peak (RBW:120 kHz, VBW: 1MHz)

> 1 GHz : Peak and Average (RBW: 1MHz / VBW: 10 Hz)

## LIMITS

## SUBCLAUSE § 15.247 (c)

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

## REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

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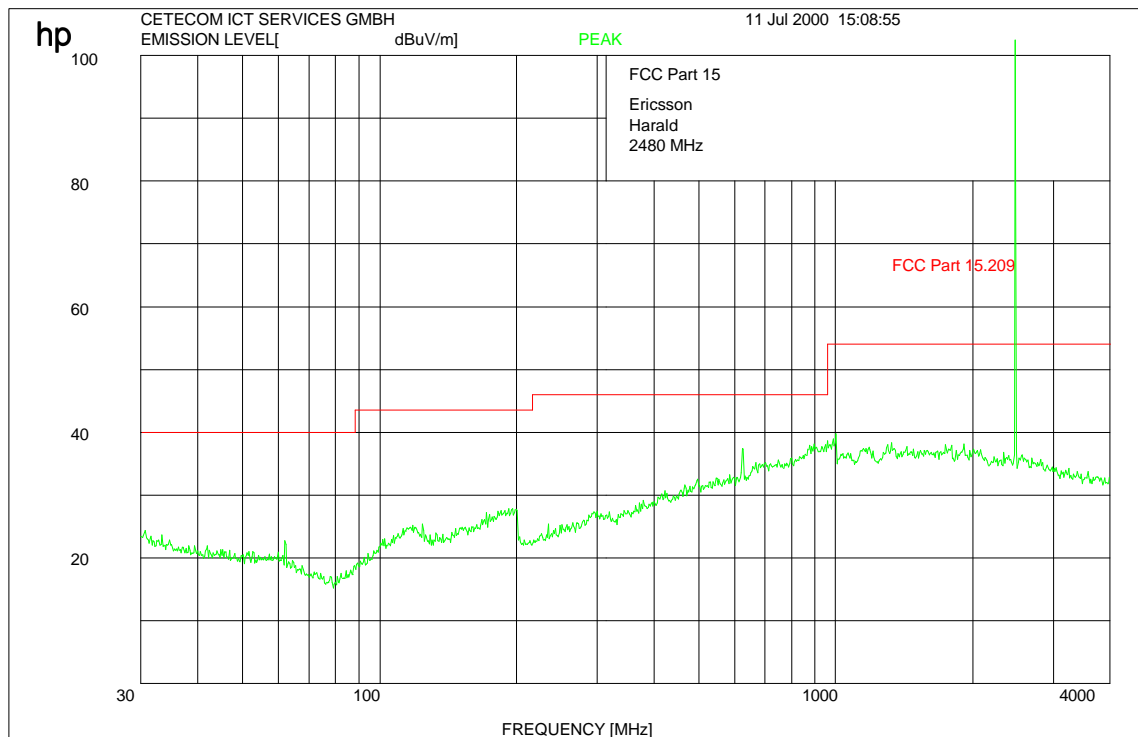
Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)

2480 MHz



Settings: < 1 GHz : Quasi Peak (RBW:120 kHz, VBW: 1MHz)  
> 1 GHz : Peak and Average (RBW: 1MHz / VBW: 10 Hz)

## LIMITS

## SUBCLAUSE § 15.247 (c)

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

## REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

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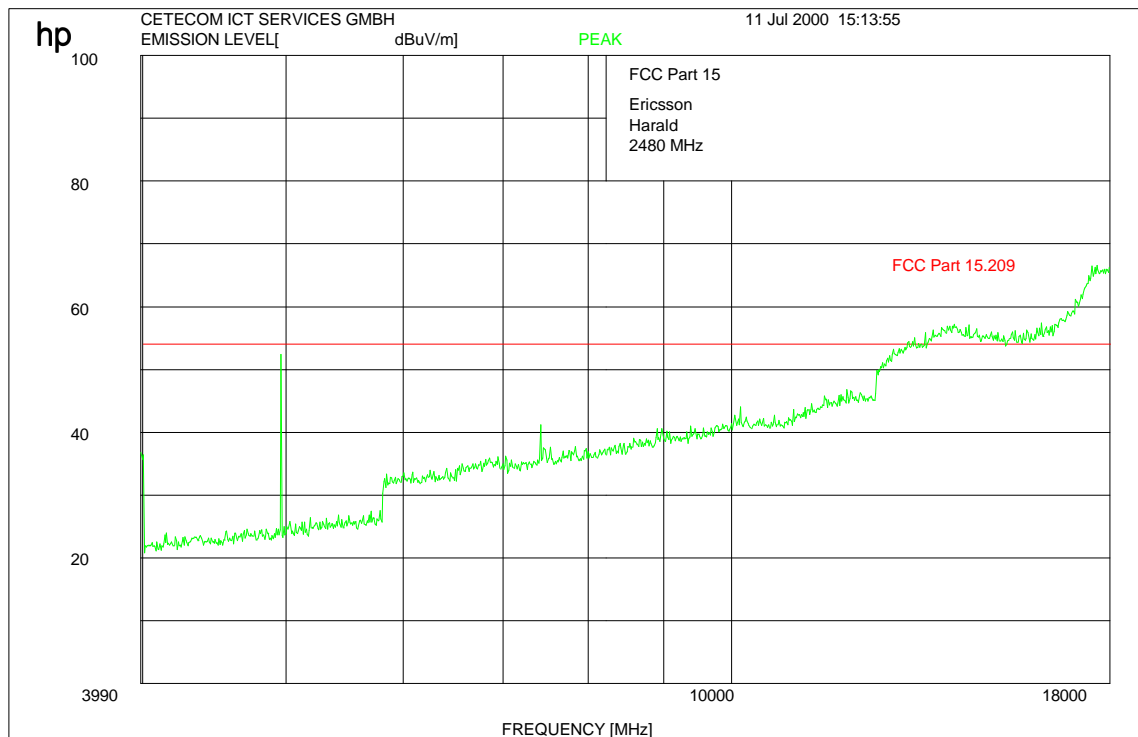
Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)

2480 MHz



Settings: < 1 GHz : Quasi Peak (RBW:120 kHz, VBW: 1MHz)  
> 1 GHz : Peak and Average (RBW: 1MHz / VBW: 10 Hz)

## LIMITS

## SUBCLAUSE § 15.247 (c)

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

## EMISSION LIMITATIONS (Transmitter)

## SUBCLAUSE § 15.247 (c) (1)

## REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

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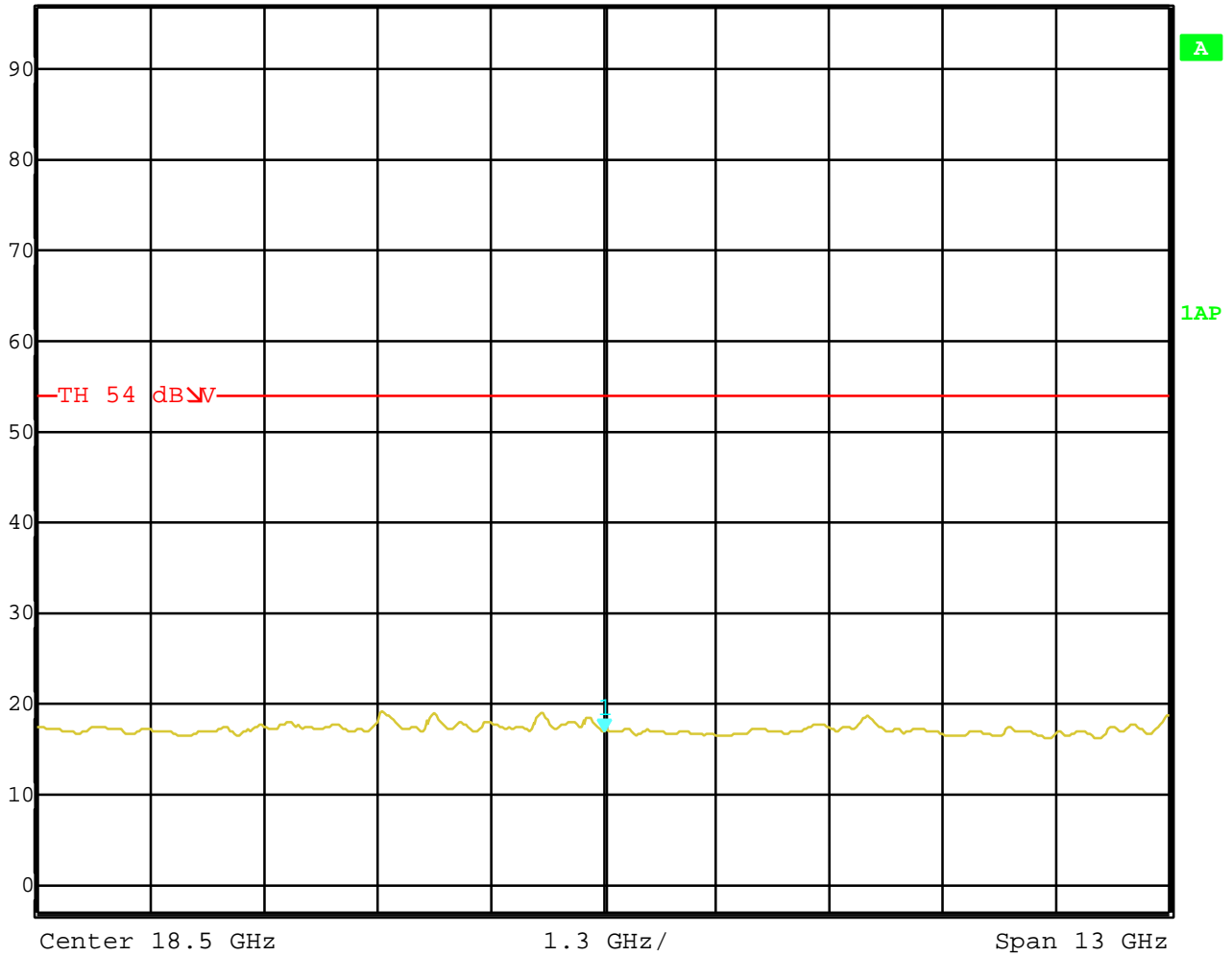
Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	0 dB
97 dB $\mu$ V	16.97 dB $\mu$ V	VBW	10 Hz		
	18.50000000 GHz	SWT	100 s	Unit	dB $\mu$ V



**Peak**

**REFERENCE NUMBER(S) OF TEST EQUIPMENT USED**

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Equipment under test : 8505001

Ambient temperature : 23°C

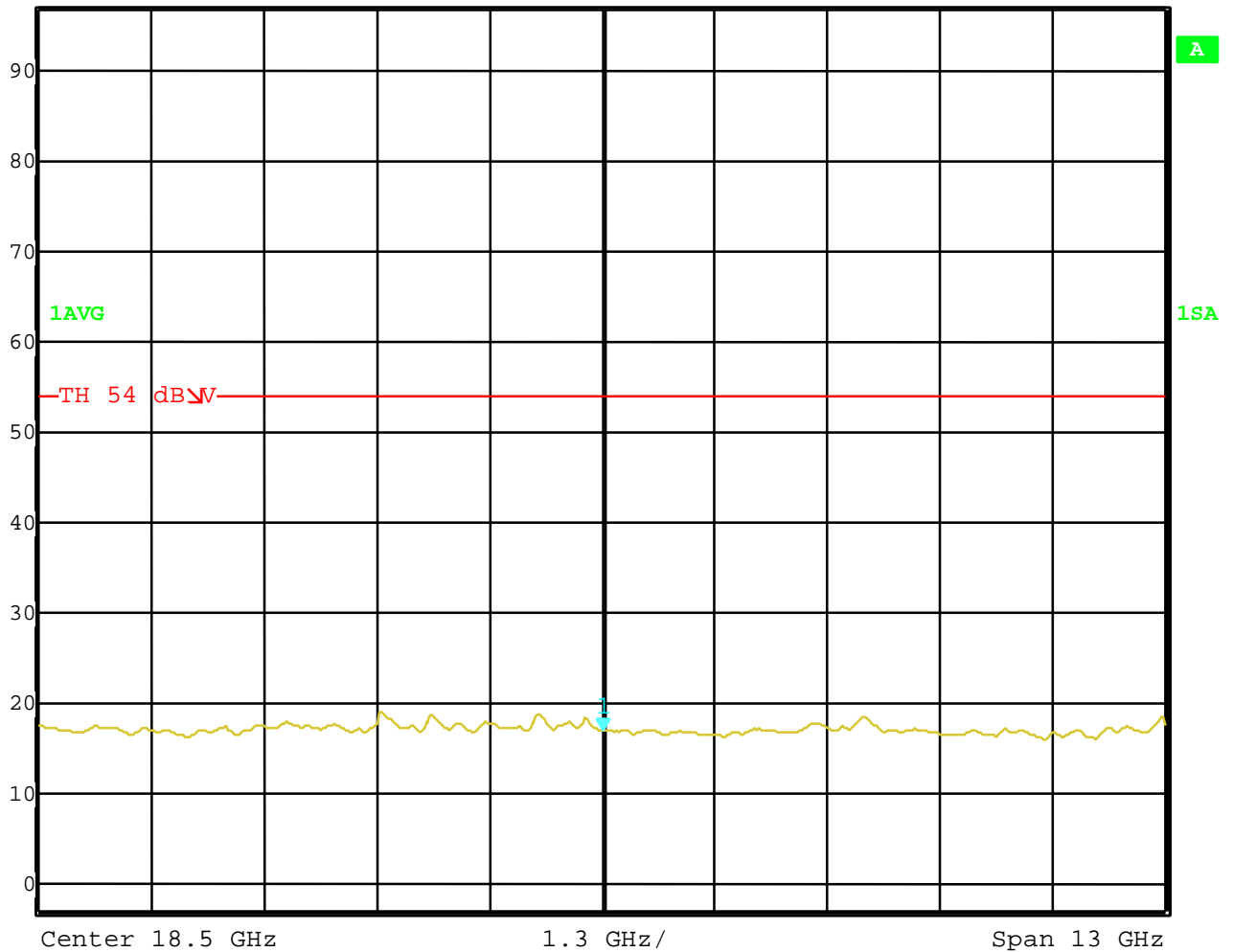
Relative humidity : 50%

## EMISSION LIMITATIONS (Transmitter)

## SUBCLAUSE § 15.247 (c) (1)



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	0 dB
97 dB $\mu$ V	16.91 dB $\mu$ V	VBW	10 Hz		
	18.50000000 GHz	SWT	60 s	Unit	dB $\mu$ V



**Average**

### REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

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Equipment under test : 8505001

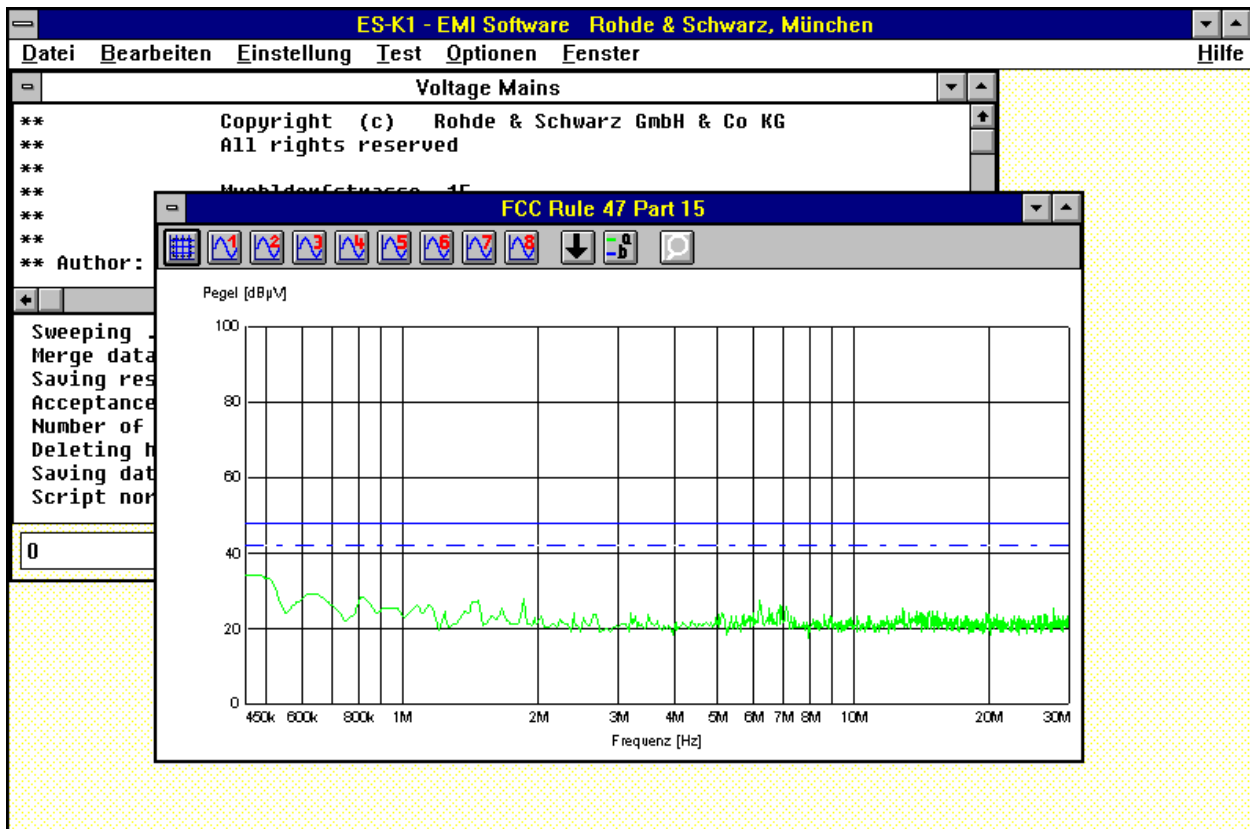
Ambient temperature : 23°C

Relative humidity : 50%

## CONDUCTED EMISSIONS

FCC Rule 47 Part 15

tested with charger



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

Limit

0.45 to 30 MHz	250 µV / 47.96 dBµV
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REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

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Equipment under test : 8505001

Ambient temperature : 23°C

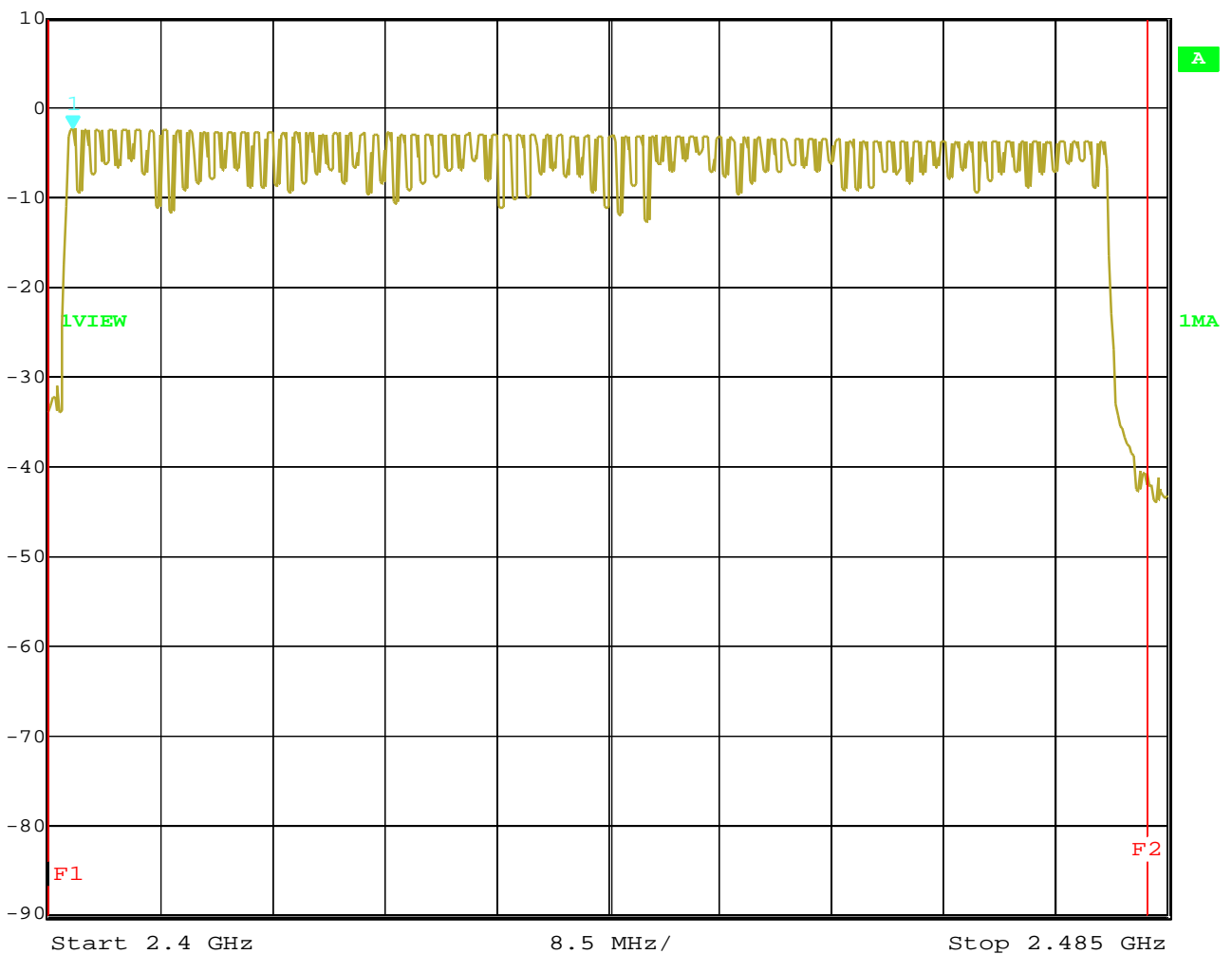
Relative humidity : 50%

## MODULATION-SPECTRUM

### Hopping mode



Ref Lvl 10 dBm  
Marker 1 [T1] 2.40187375 GHz  
RBW 200 kHz  
RF Att 40 dB  
VBW 200 kHz  
SWT 200 ms  
Unit dBm



Date: 12.JUL.2000 10:55:47

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

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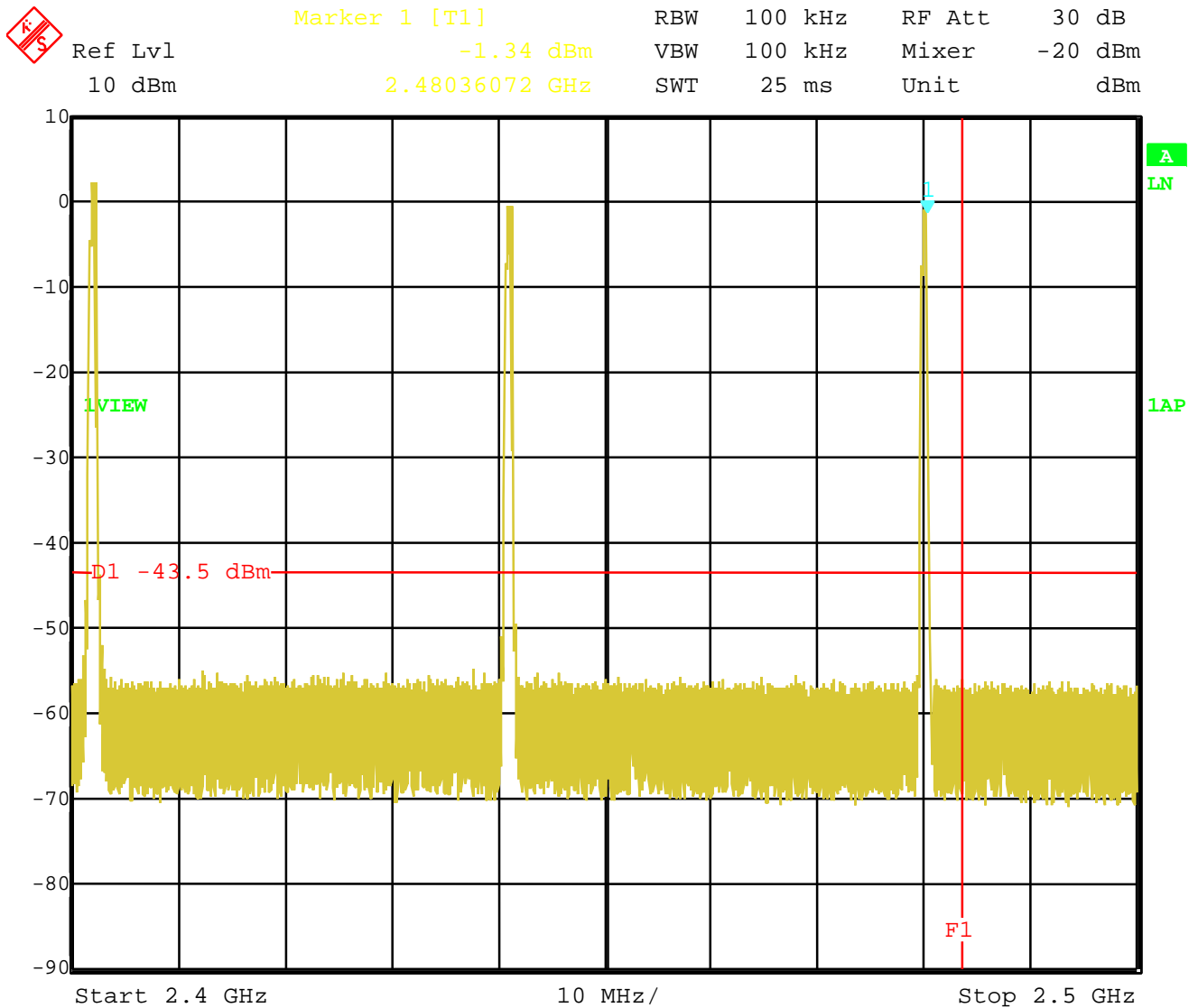
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Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## BAND-EDGE COMPLIANCE / RESTRICTED BAND



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

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Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## RECEIVER SPURIOUS RADIATION

§ 15.209

### Radiated

SPURIOUS EMISSIONS LEVEL (µV/m)								
2402 MHz			2440 MHz			2480 MHz		
f (MHz)	Detector	Level (µV/m)	f (MHz)	Detector	Level (µV/m)	f (MHz)	Detector	Level (µV/m)
all peaks <<limit								
Measurement uncertainty			±3 dB					

all measurements were done up to 25 GHz

Measurement distance see table

### Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

### REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)



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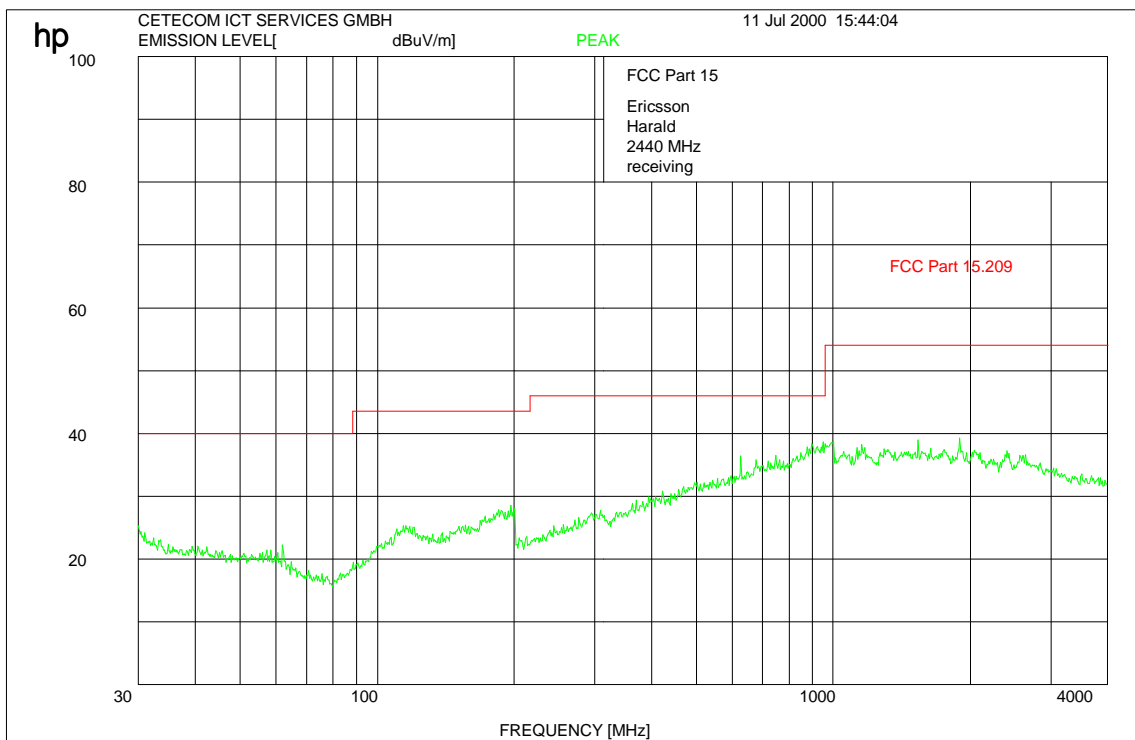
Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## RECEIVER SPURIOUS RADIATION

§ 15.209



Settings: < 1 GHz : Quasi Peak (RBW:120 kHz, VBW: 1MHz)  
> 1 GHz : Peak and Average (RBW: 1MHz / VBW: 10 Hz)

### Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength ( $\mu\text{V/m}$ )	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

### REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

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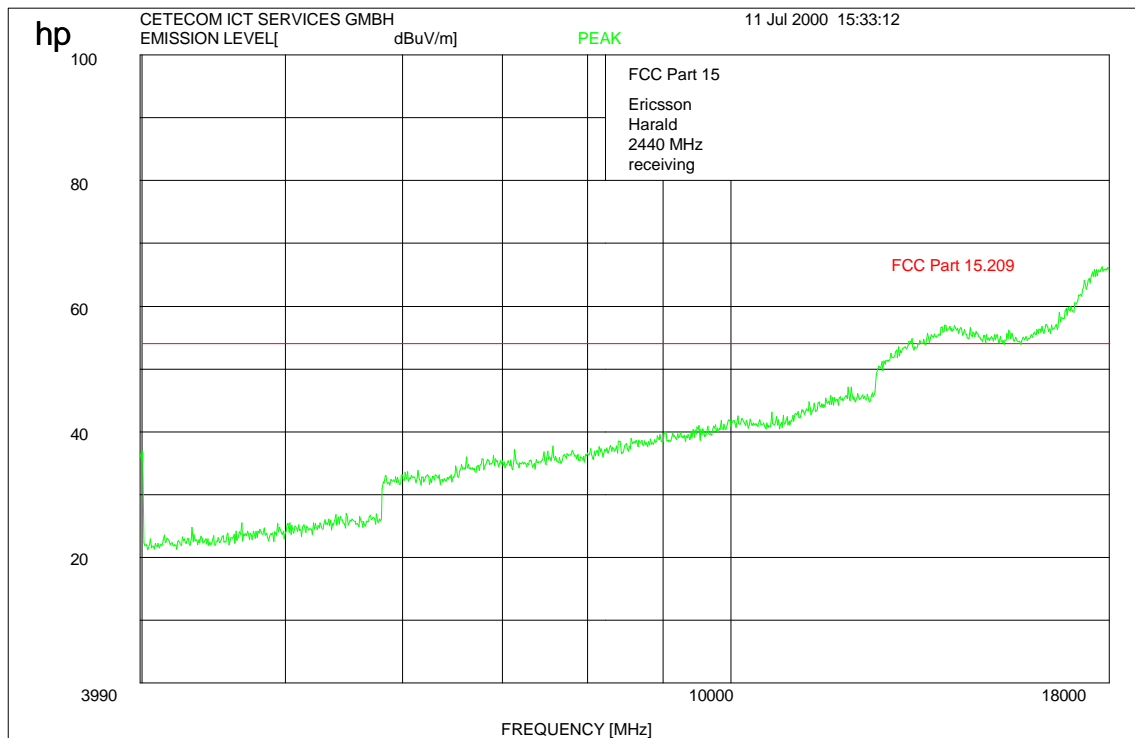
Equipment under test : 8505001

Ambient temperature : 23°C

Relative humidity : 50%

## RECEIVER SPURIOUS RADIATION

§ 15.209



all measurements were done up to 25 GHz

Settings: < 1 GHz : Quasi Peak (RBW:120 kHz, VBW: 1MHz)  
> 1 GHz : Peak and Average (RBW: 1MHz / VBW: 10 Hz)

Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength ( $\mu\text{V/m}$ )	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

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## TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

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

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

# CETECOM ICT Services GmbH

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## TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

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

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