

RADIO TEST REPORT

No. 518485R1

EQUIPMENT UNDER TEST

Equipment: Repeater
Type / model: AR3700/502
Manufacturer: Powerwave Technologies Sweden AB
Tested by request of: Powerwave Technologies Sweden AB

SUMMARY

The equipment complies with the requirements of the following standards:

FCC Part 24 E (2005)
FCC Part 15, subpart B; class B (2005)



Date of issue: November 30, 2005



Tested by:

Bazhanov

Vladimir Bazhanov

Approved by:

Lars-Olov Johansson

Lars-Olov Johansson



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Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden
Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com
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Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden

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1. CLIENT INFORMATION

The EUT has been tested by request of

Company: Powerwave Technologies Sweden AB
Antennvägen 6
SE-187 80 Täby
Sweden
Name of contact: Mr. Kjell Knuutinen

2. EQUIPMENT UNDER TEST (EUT)**2.1 Identification of the EUT according to the manufacturer/client declaration**

Equipment: Repeater
Type/Model: AR3700/502
Brand name: Powerwave Technologies Sweden AB
Serial number: 47863
Manufacturer: Powerwave Technologies Sweden AB
Rating/Supplying voltage: 115 V AC
Rating RF output power: Uplink 32 dBm per carrier (with 8PSK modulated signal)
External antenna connector: YES
Operating temperature range: -25 to +55 °C (tested at -30 to +60 °C)
Frequency range: 1850 – 1910 MHz (Uplink)
1930 – 1990 MHz (Downlink)
Modulation characteristics: GSM/EDGE (GMSK and 8PSK)

2.2 Additional hardware information about the EUT

The EUT consists of the following units:

Unit	Type
CU Board	K103/3
CHE Board, UL	K160/7
CHE Board, DL	K160/8
Duplex filter	UA106 14/1
LNA 1900 Unit UL	UA107 23/3
LNA 1900 Unit DL	UA107 23/4
Power Supply Unit	UA101 14/1



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2.3 Additional software information about the EUT

During the tests the EUT supported the following software:

Software	Manufacturer / Type
OM Online	Powerwave Technologies Sweden AB / SA102 60/1

2.4 Peripheral equipment

Peripheral equipment is defined as equipment needed for correct operation of the EUT during the tests, but not included as a part of the testing and evaluation of the EUT.

Equipment	Manufacturer / Type	Serial number
Signal generator:	Rohde & Schwarz / SMIQ 03B	838340/03
Laptop PC	IBM / 2645450	55223RZ

2.5 Modifications during the test

No modifications have been made during the tests.



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3. TEST SPECIFICATIONS

3.1 Standards

FCC part 24 (2005): Public Mobile Services, Subpart E – Broadband PCS

FCC part 15 (2005): Subpart B, class B

3.2 Additions, deviations and exclusions from standards

No additions, deviations or exclusions have been made from standards.

3.3 Test set-up

Measurement set-ups for radiated measurements and conducted emissions from AC power port are described in Sections 9.1 and 10.1 respectively. For conducted RF measurements corresponding antenna port of the EUT was connected to the spectrum analyser by cable with a suitable power attenuator. During the tests the input signal modulated with GMSK 8PSK EDGE was supplied from the generator. Measurement results were corrected for attenuation in the set-up configuration. The EUT was supplied with 120 V, (50-60 Hz) during the tests.

3.4 Operating environment

If not additionally specified, the tests were performed under the following environmental conditions:

Air temperature: 21 - 23 °C

Relative humidity: 22 - 28 %



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4. TEST SUMMARY

The results in this report apply only to the tested sample.

FCC reference	Test	Result	Note
24.232(a)	RF Output Power	Pass	
24.238 (a-d)	Occupied Bandwidth, Input vs. Output	Pass	
24.238 (a-d)	Spurious emission at antenna terminal	Pass	
24.238 (a)	Spurious emission radiated	Pass	1
15 B	Spurious emission at AC terminal	Pass	
24.235	Stability Performance	Pass	

Note: 1. The measured result is below the upper limit, but by a margin less than half of the uncertainty interval; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance is more probable than non-compliance.



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5. RF OUTPUT POWER

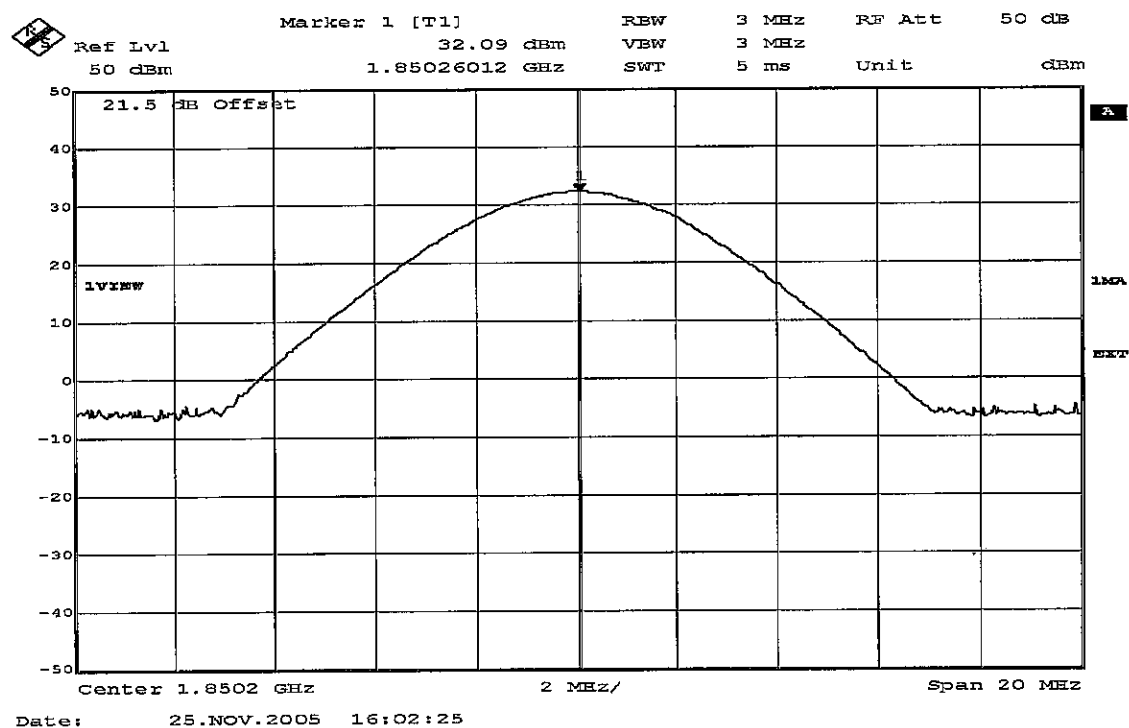
5.1 Test protocol

Date of test: November 25, 2005

Channel (MHz)	Peak Output Power (dBm)	Limit value (dBm)
1850,2	32,1	< 50
1880,0	33,1	
1909,8	29,8	
1930,2	32,4	
1960,0	33,1	
1989,8	31,4	

Uplink

Channel: 512; Frequency: 1850,2 MHz

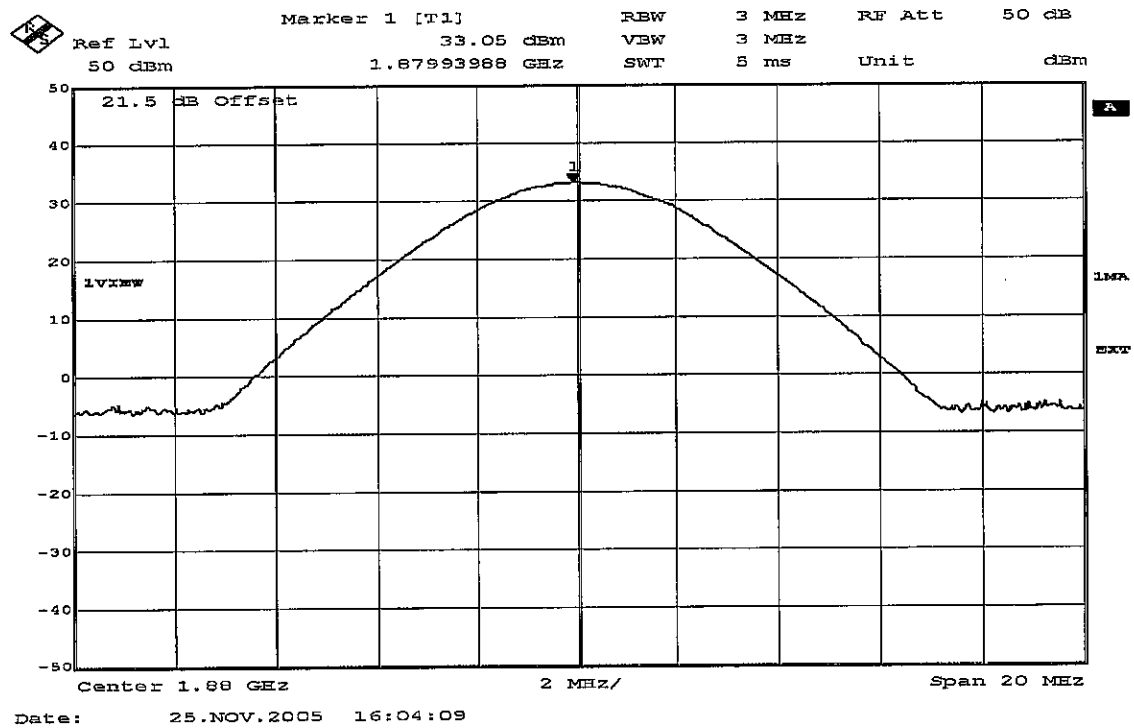

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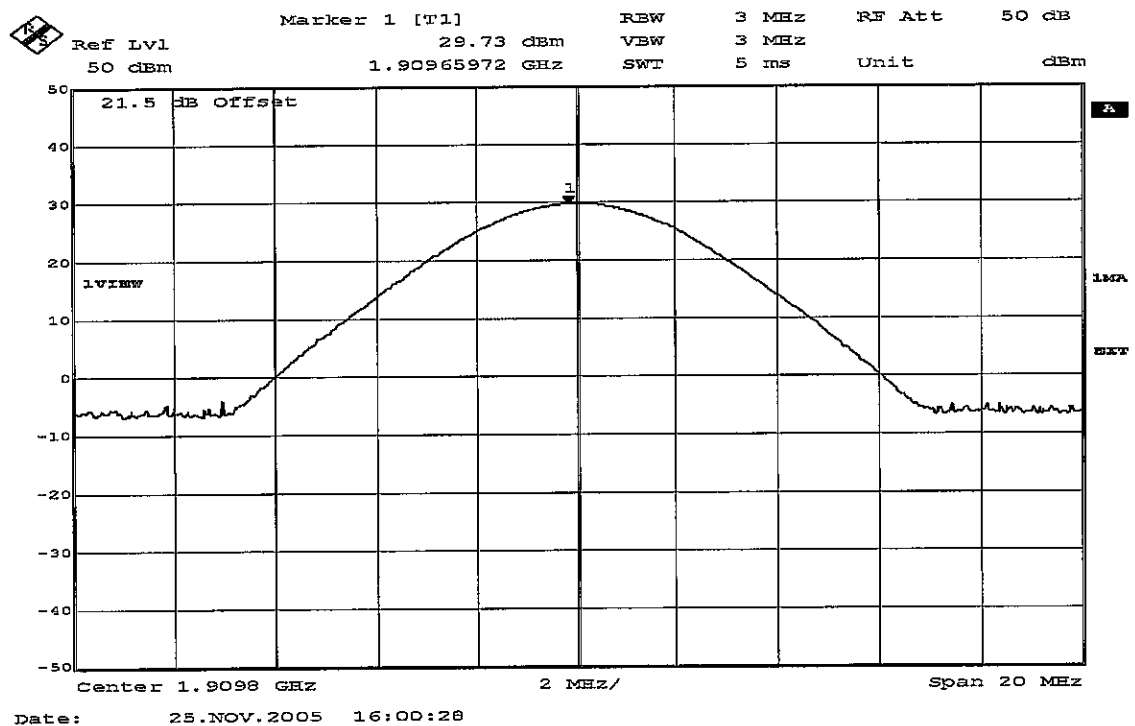
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Channel: 661; Frequency: 1880,0 MHz



Channel: 810; Frequency: 1909,8 MHz



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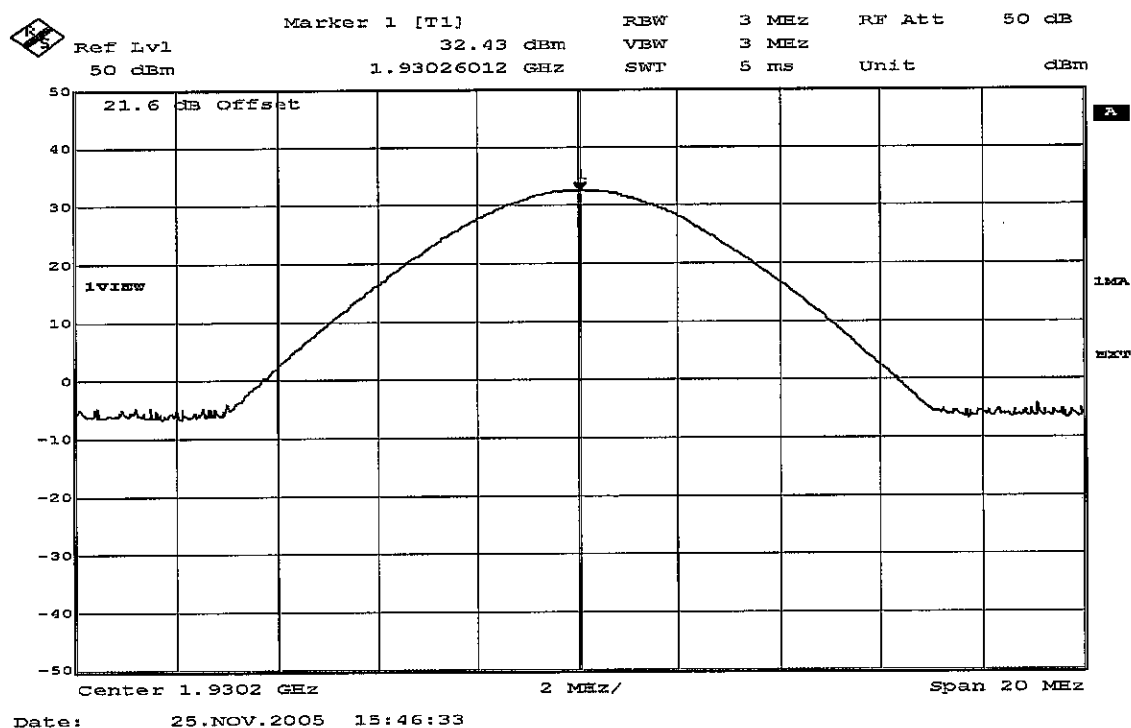
Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden

Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com

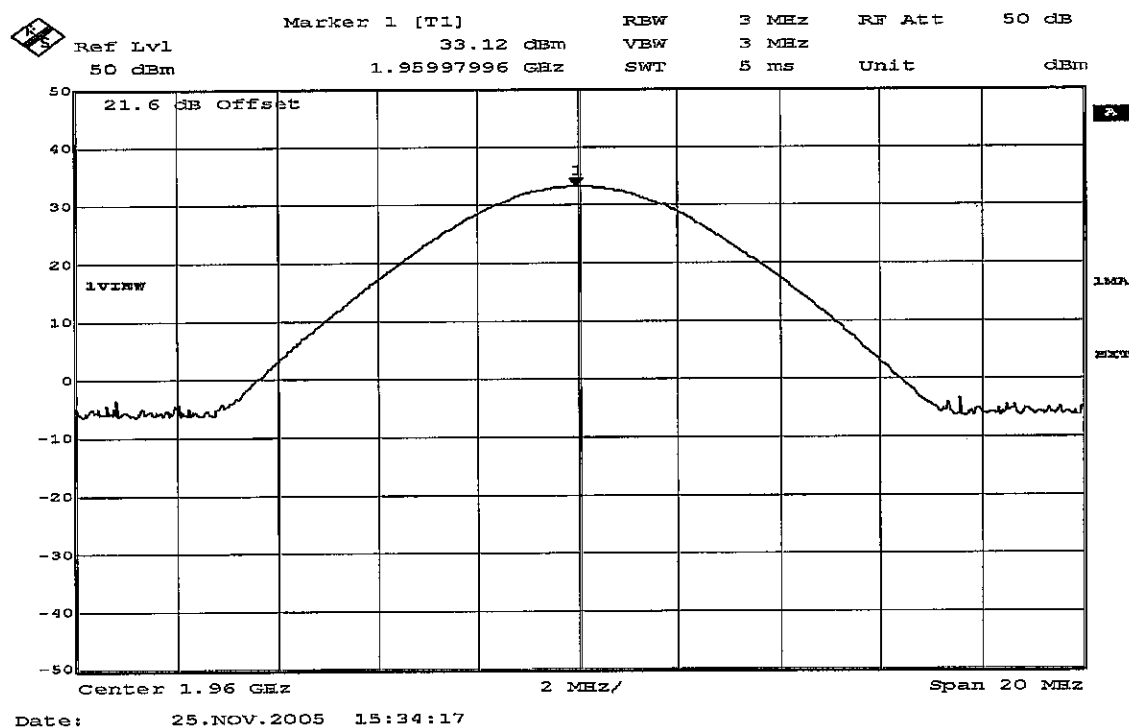
Registered in Sweden: No SE556024059901, Registered office: As address

Downlink

Channel: 512; Frequency: 1930,2 MHz



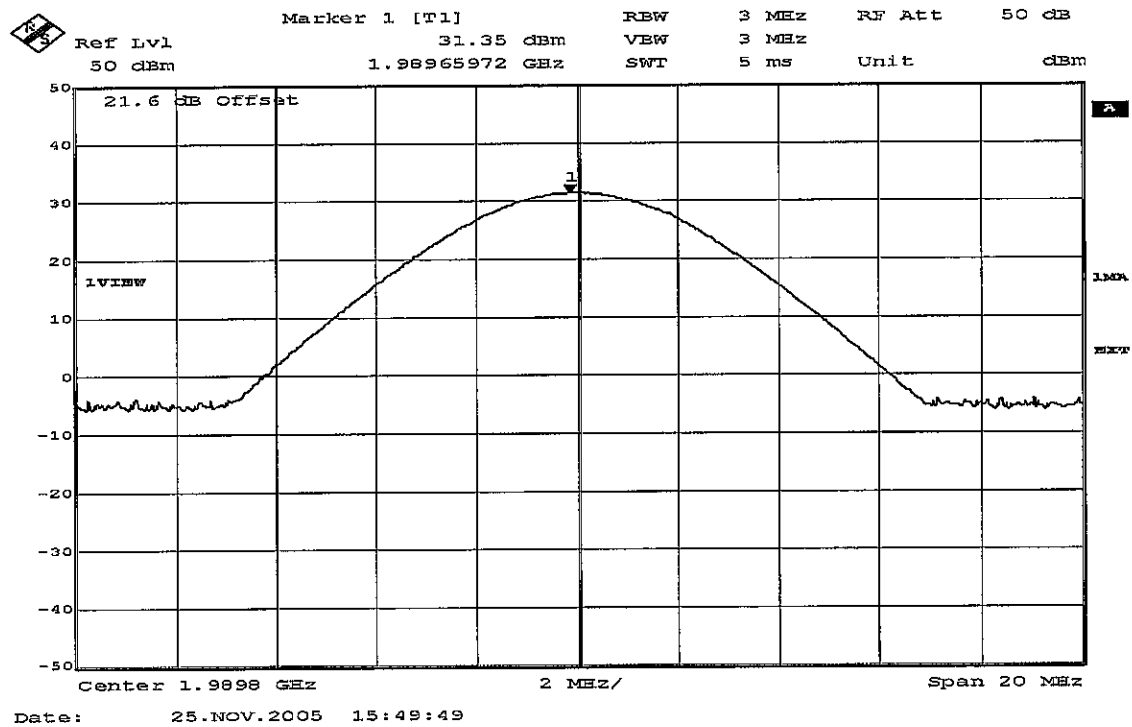
Channel: 661; Frequency: 1960,0 MHz



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Channel: 810; Frequency: 1989,8 MHz



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6. OCCUPIED BANDWIDTH

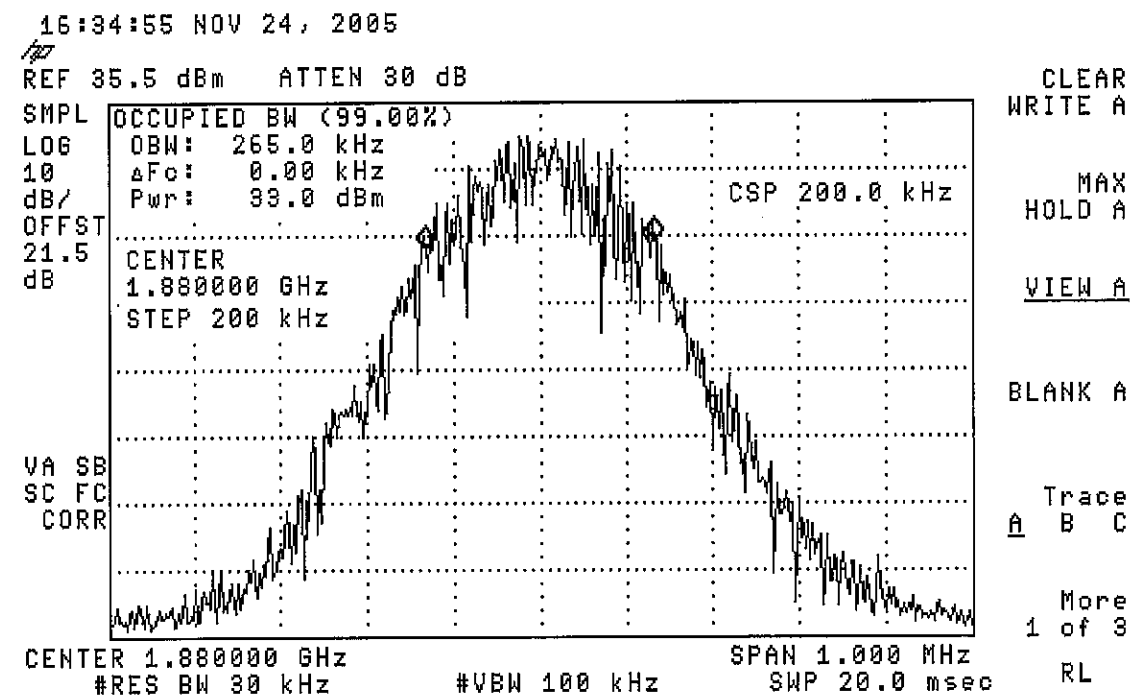
6.1 Test protocol

Date of test: November 24, 2005

Mode	99% Bandwidth (kHz)	Limit value (kHz)
Uplink	265	< 350
Downlink	270	

Uplink

Frequency: 1880 MHz



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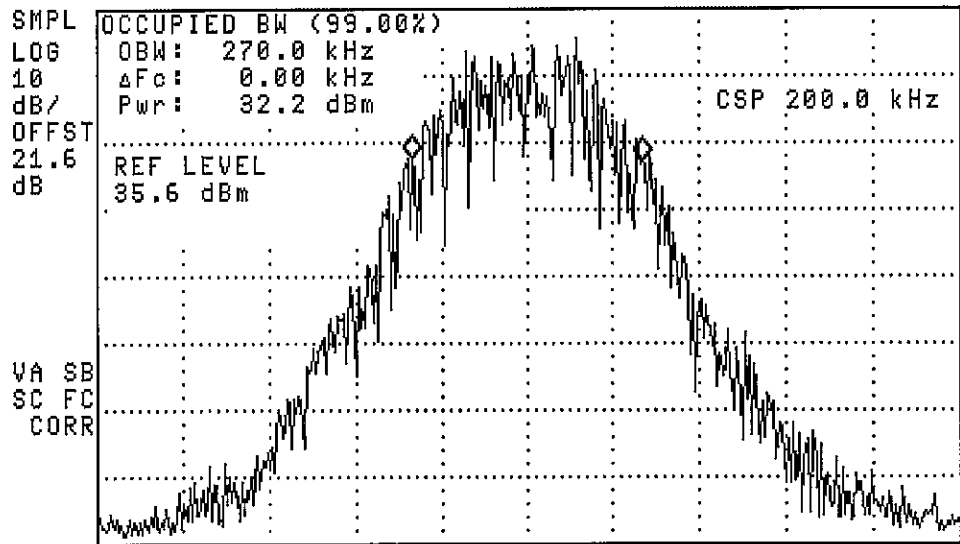
Registered in Sweden: No SE556024059901, Registered office: As address

Downlink

Frequency: 1960 MHz

16:09:19 NOV 24, 2005

REF 35.6 dBm ATTEN 30 dB



CENTER 1.960000 GHz SPAN 1.000 MHz
 #RES BW 30 kHz #VBW 100 kHz SWP 20.0 msec

CLEAR
 WRITE A

MAX
 HOLD A

VIEW A

BLANK A

Trace
 A B C

More
 1 of 3

RL



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7. STABILITY PERFORMANCE

7.1 Test protocol

Date of test: November 24, 2005

Mode	Frequency, MHz	Output Power, dBm		
		Temp: +22 °C	Temp: +60 °C	Temp: -30 °C
Uplink	1880	33,3	32,5	35,7
Downlink	1960	32,8	33,2	33,5



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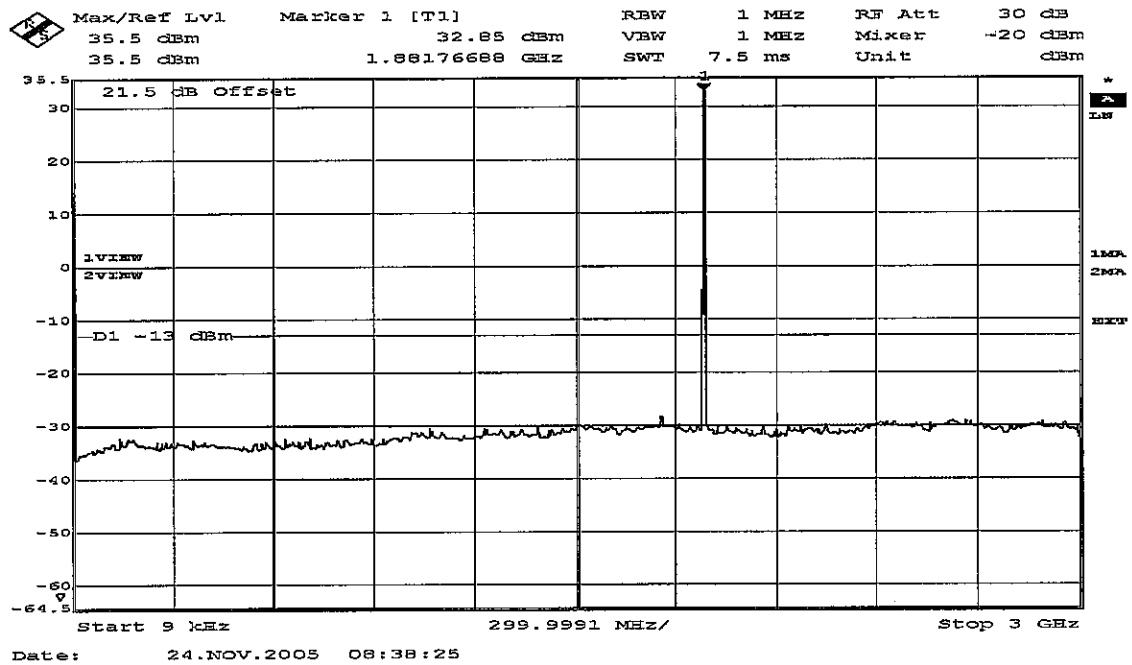
8. CONDUCTED SPURIOUS EMISSIONS AT ANTENNA PORT

8.1 Test protocol

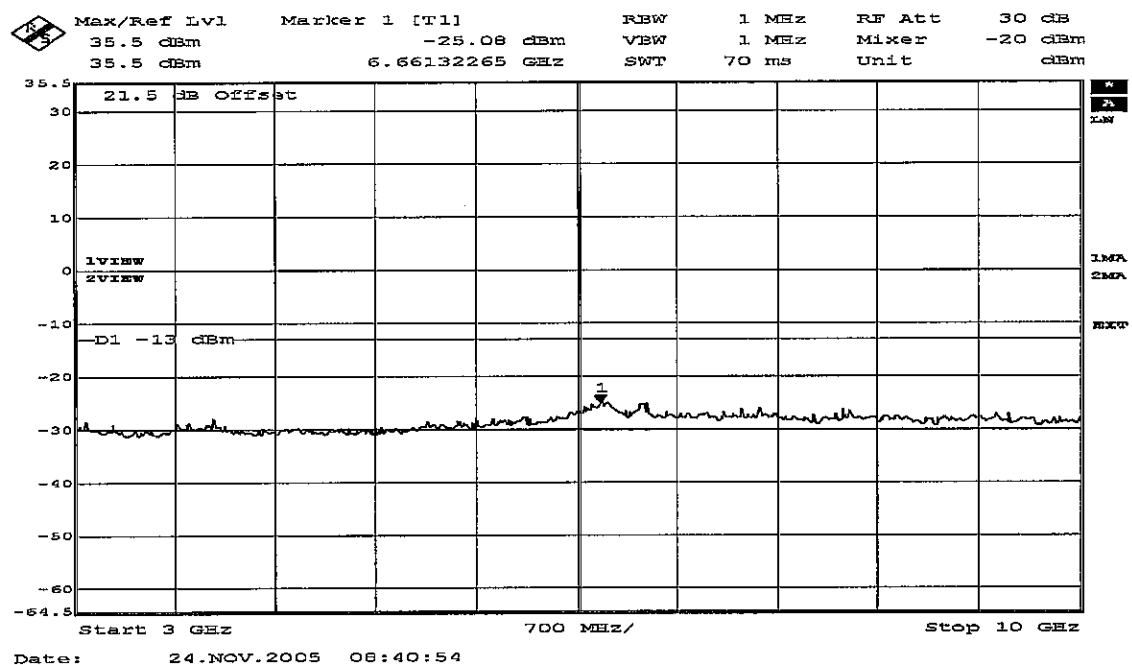
Date of test: November 24, 2005

Uplink

9 kHz – 3 GHz



3 – 10 GHz



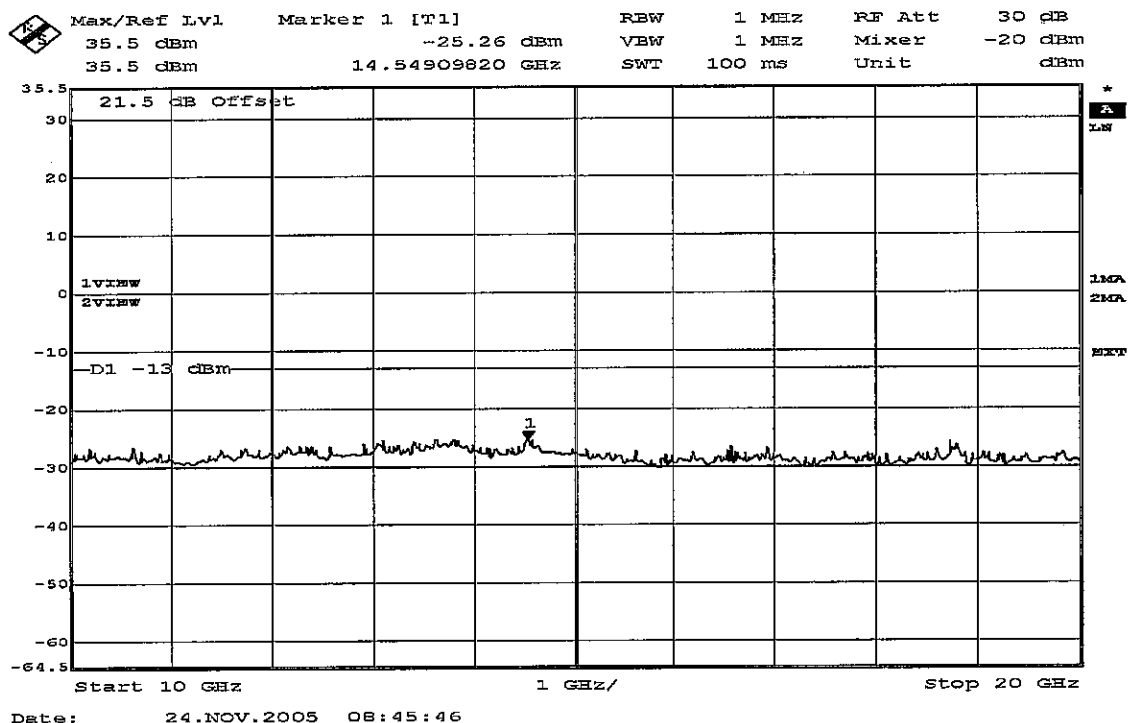
Intertek Semko AB

Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden

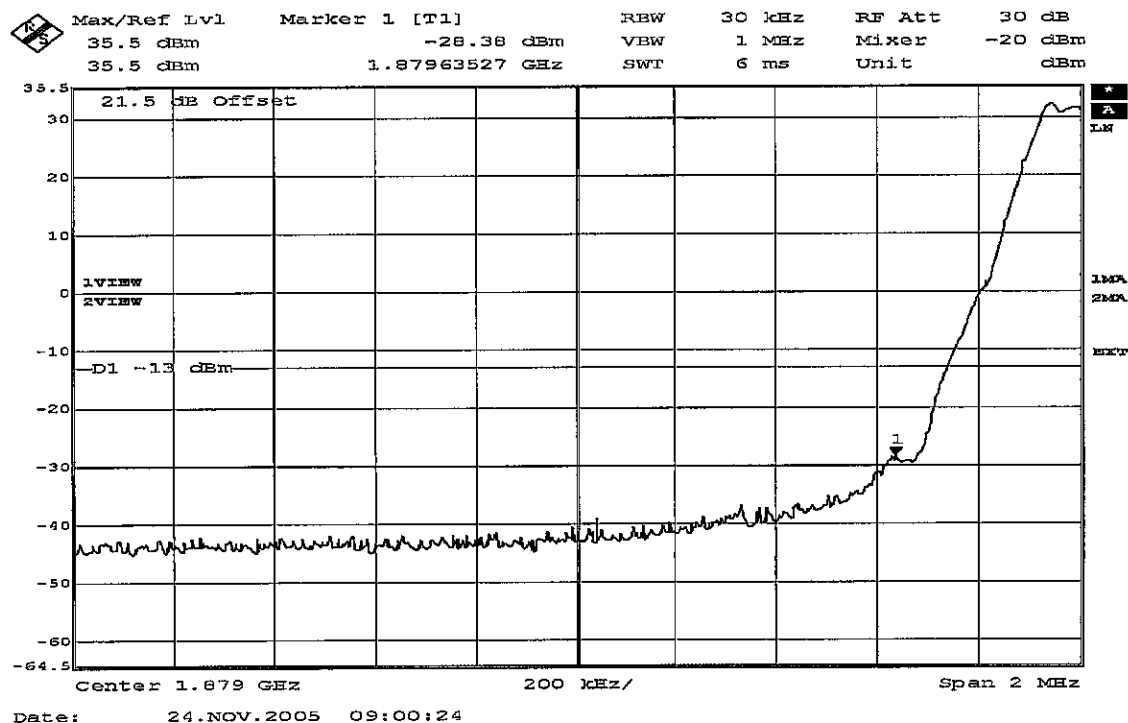
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10 – 20 GHz



Adjacent frequency bands

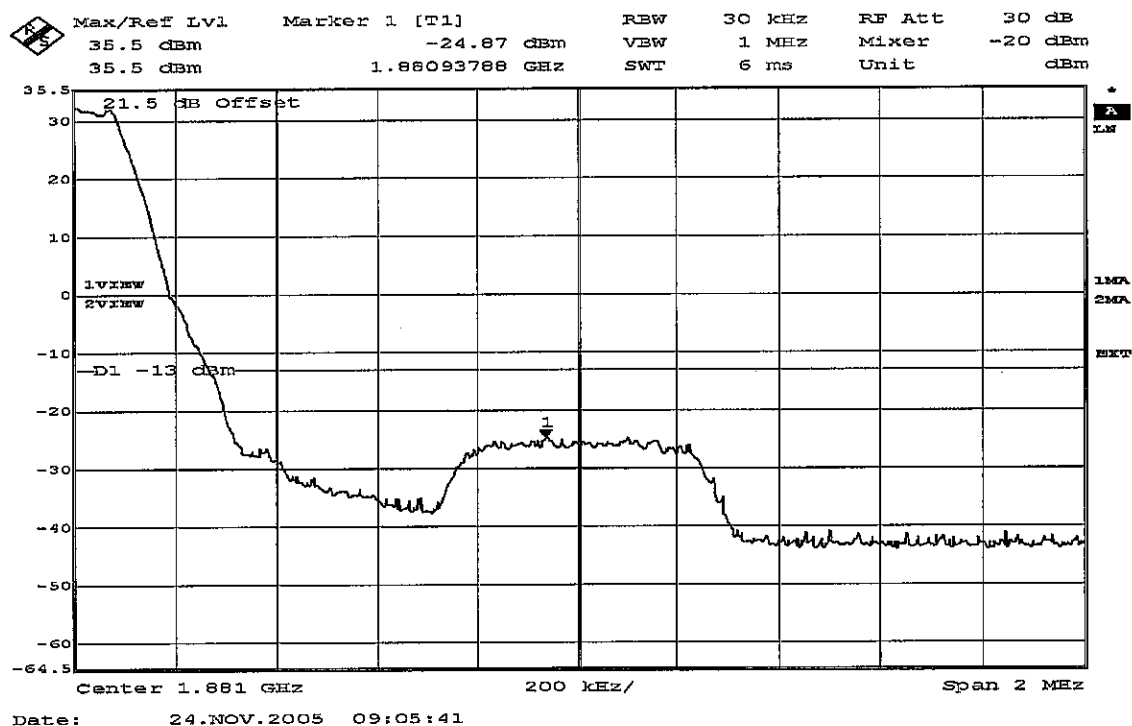


Intertek Semko AB

Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden

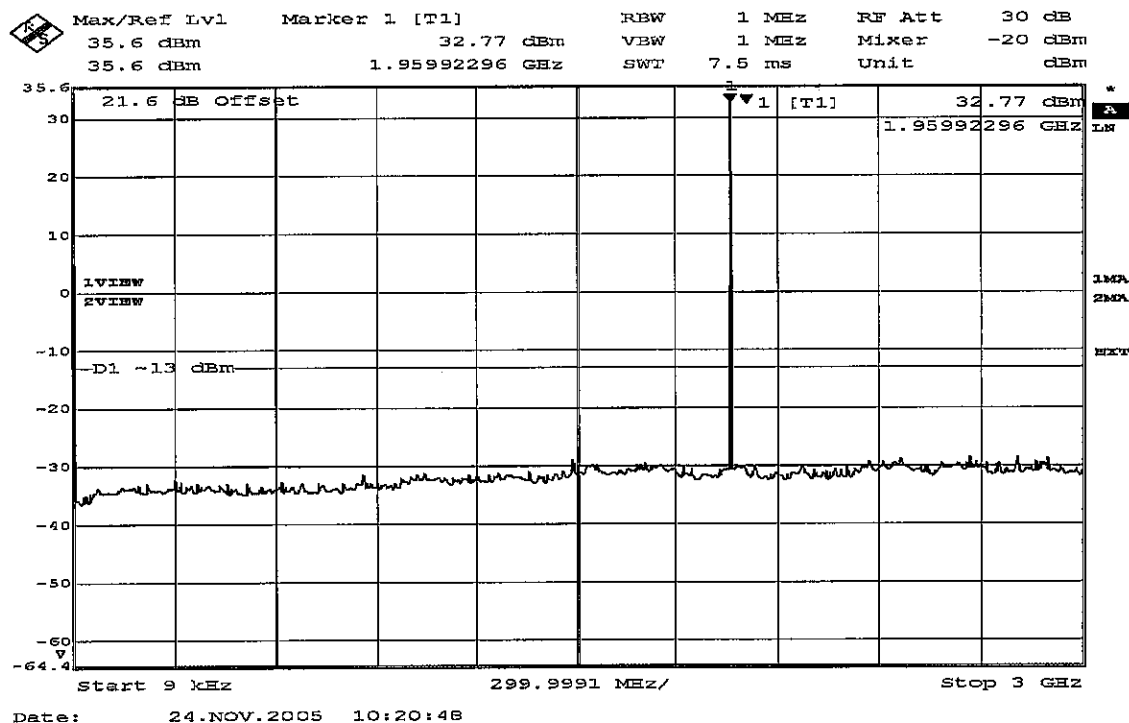
Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com

Registered in Sweden: No SE556024059901, Registered office: As address



Downlink

9 kHz – 3 GHz



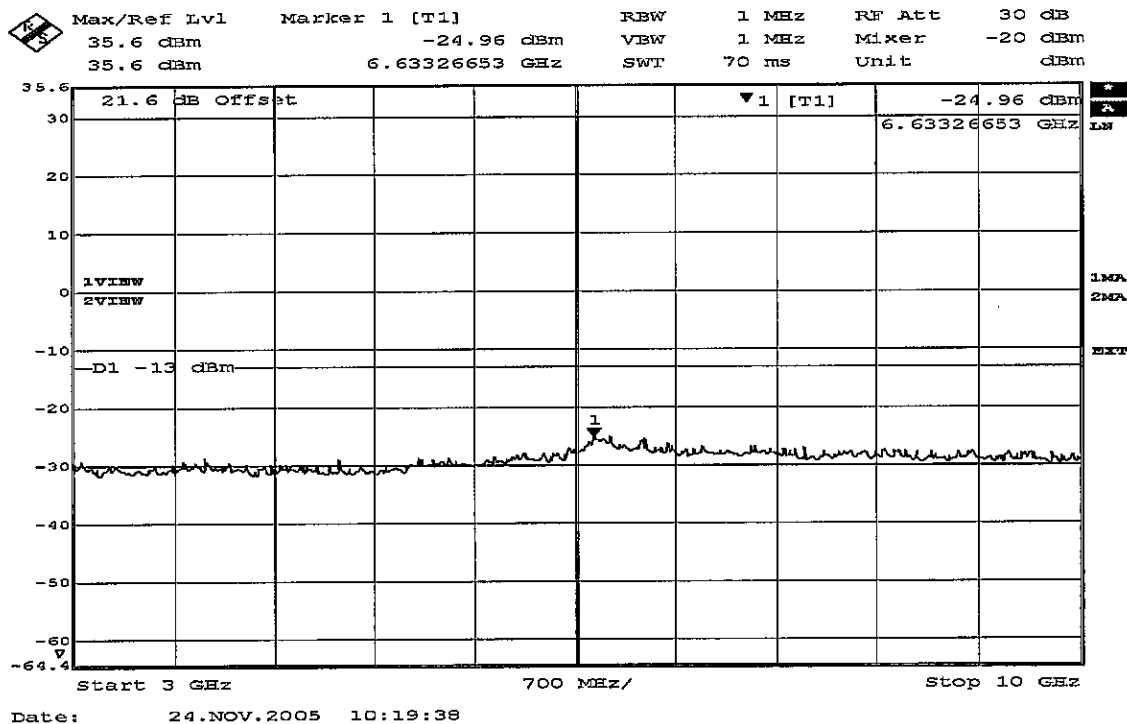
Intertek Semko AB

Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden

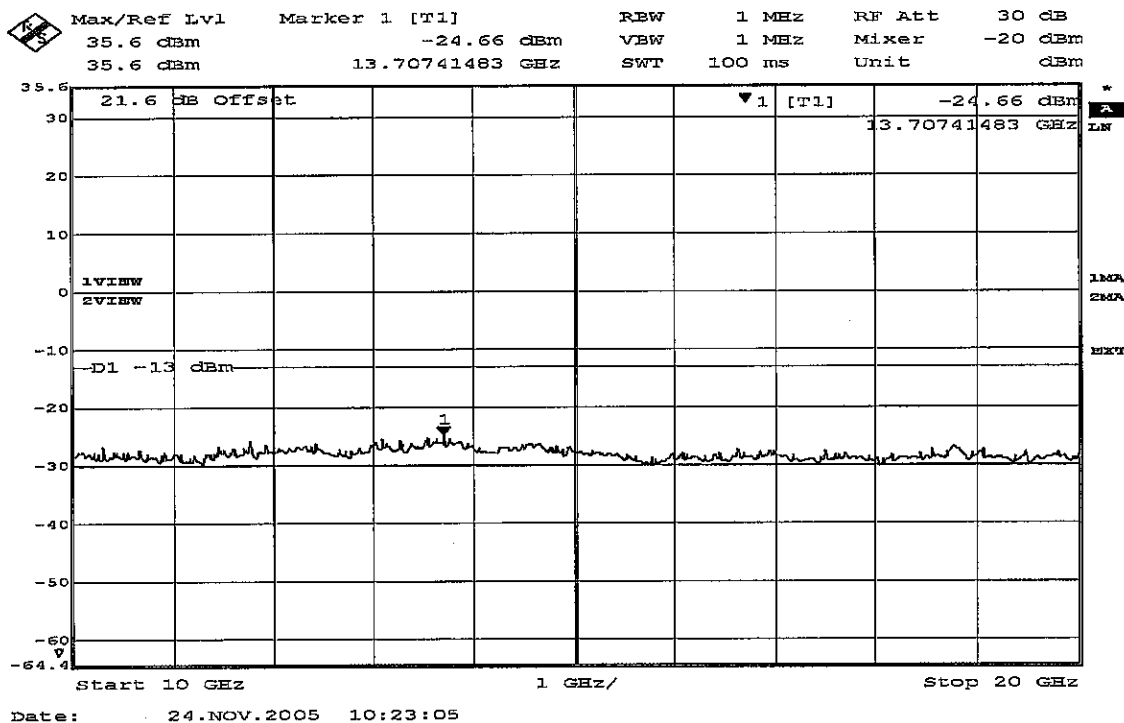
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Registered in Sweden: No SE556024059901, Registered office: As address

3 – 10 GHz



10 – 20 GHz



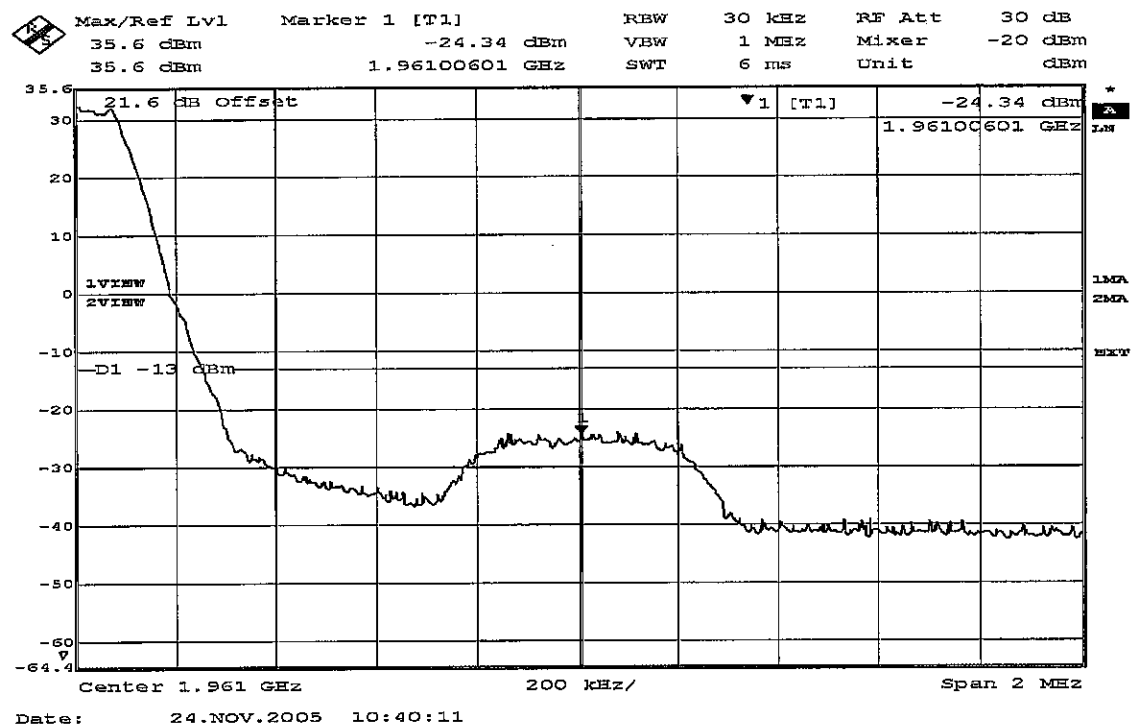
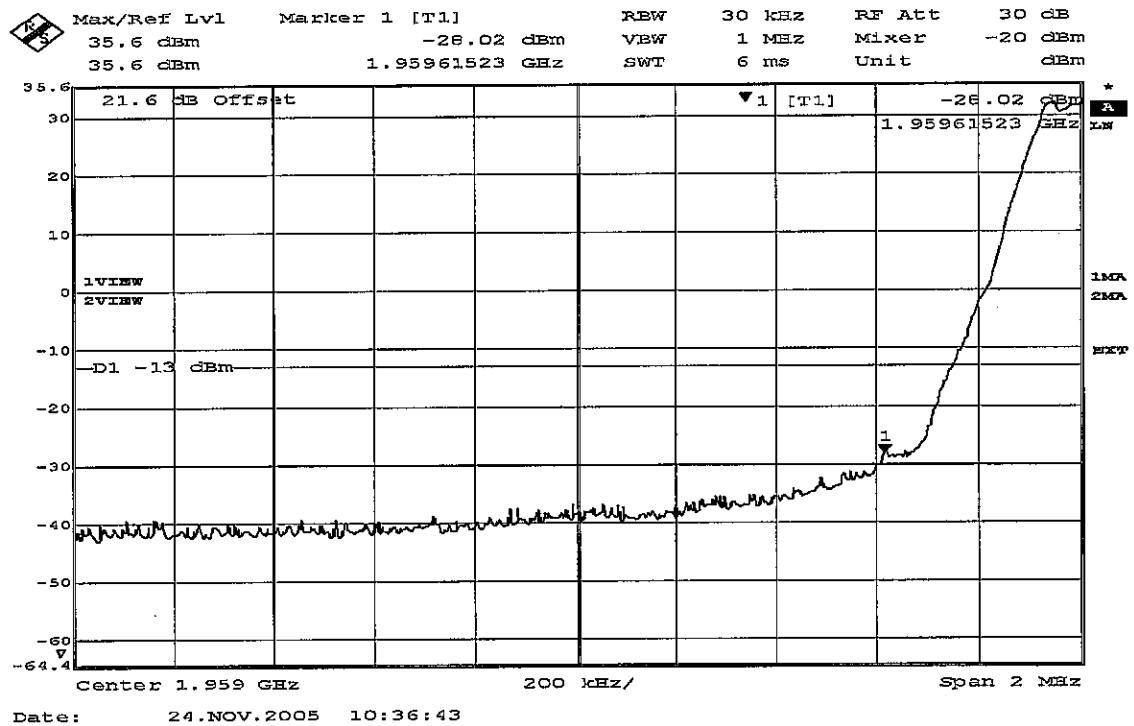
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Adjacent frequency bands



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Data summary
Uplink

Frequency /MHz	Measurement bandwidth /kHz	Peak	
		Disturbance level /dBm	Permitted limit /dBm
0,009 – 3000	1000	<-28	-13
1878,0 – 1879,7	30	<-28	-13
1880,4 – 1882,0	30	<-24	-13
3000 – 10000	1000	<-25	-13
10000 – 20000	1000	<-25	-13

Downlink

Frequency /MHz	Measurement bandwidth /kHz	Peak	
		Disturbance level /dBm	Permitted limit /dBm
0,009 – 3000	1000	<-28	-13
1958,0 – 1959,7	30	<-28	-13
1960,4 – 1962,0	30	<-24	-13
3000 – 10000	1000	<-24	-13
10000 – 20000	1000	<-24	-13

The limit for spurious emissions was calculated according to FCC § 24.238 (a): "The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB".



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9. RADIATED SPURIOUS EMISSIONS

9.1 Measurement set-up

Test site: Semi-anechoic shielded chamber (30 – 1000 MHz)

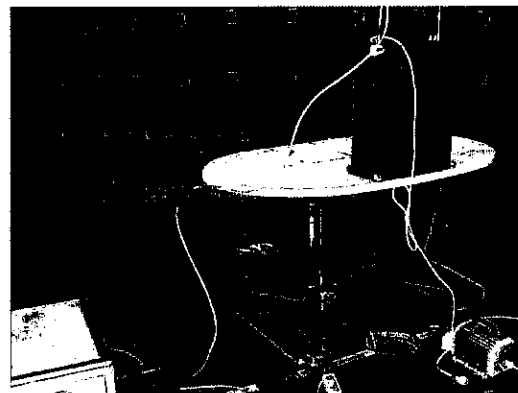
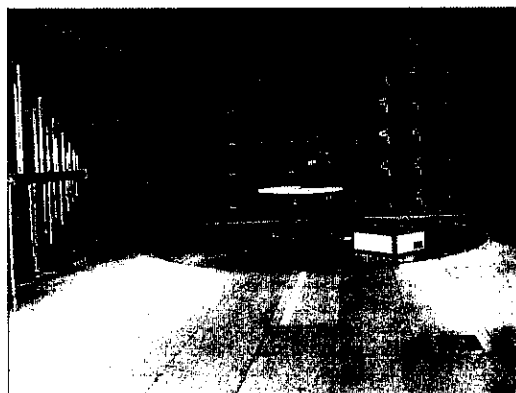
The radiated disturbance electric field intensity was measured in a semi-anechoic chamber at a distance of 10 m and the EUT was placed on a non-metallic table, 0,8 m above the reference ground plane. The specified test mode was enabled. Test set-up photos are given below.

An overview sweep with peak detection of the electric field intensity was performed with the measurement receiver in max-hold and with the antenna placed 1,5 m, 2,5 m and 3,5 m above the floor. The polarisation was horizontal and vertical. The measurements were repeated with the EUT rotated in 90-degree steps.

At the frequencies where high disturbance levels were found a search for max disturbance level was performed. With the EUT and antenna in the worst-case configuration new measurements were carried out.

The EUT was supplied with 120 V, 60 Hz during the test.

Test set-up photos:



Test site: Bluetooth anechoic shielded chamber (1 – 26 GHz)

In the Bluetooth anechoic chamber the EUT was placed on a non-metallic table, 1,25 m above the floor. The radiated disturbance electric field intensity was measured at a distance of 3 m. The specified test mode was enabled.

An overview sweep with peak detection of the electric field intensity was performed with the spectrum analyser in max-hold and with the antenna height adjusted at the EUT center level above the floor. The polarisation was horizontal and vertical. The measurements were repeated with the EUT rotated in 90-degree steps. At the frequencies where high disturbance levels were found a search for max disturbance level was performed. With the EUT and antenna in the worst-case configuration new measurements were carried out.

The EUT was supplied with 120 V, 50 Hz during the test.



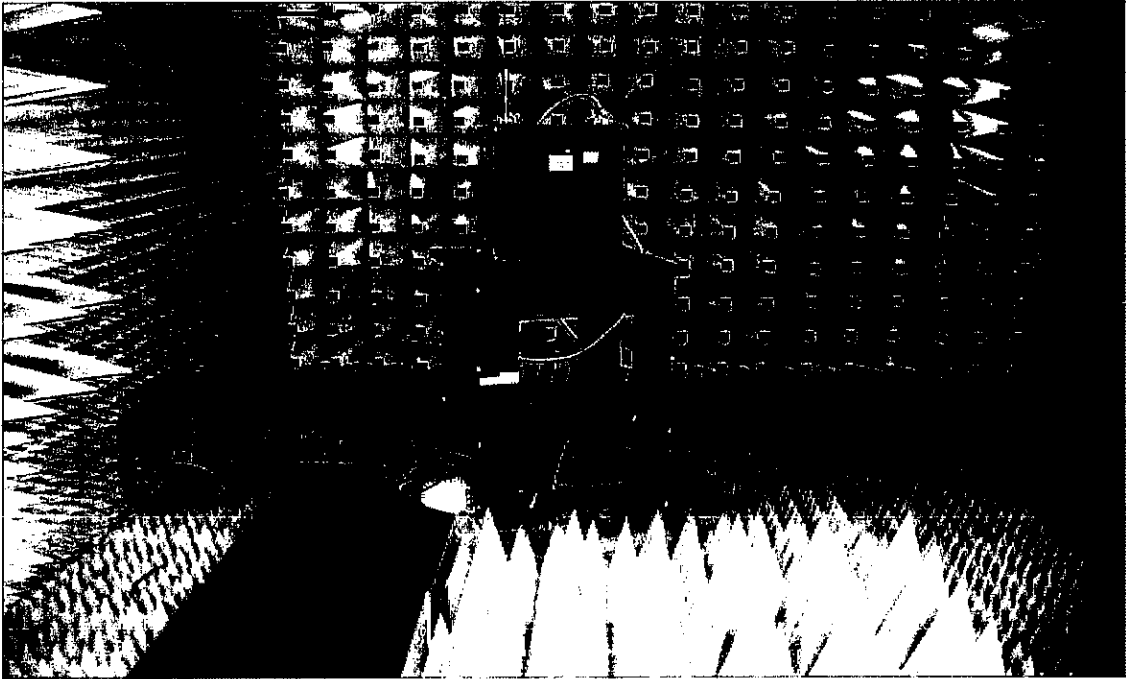
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Test set-up photo:

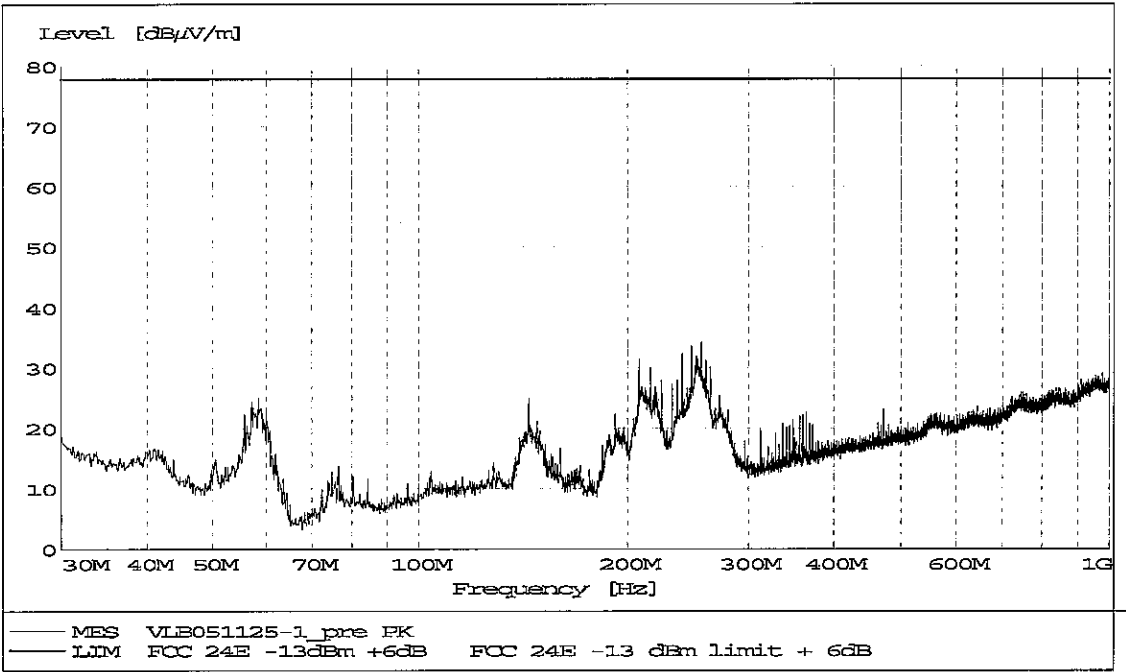


9.2 Test protocol

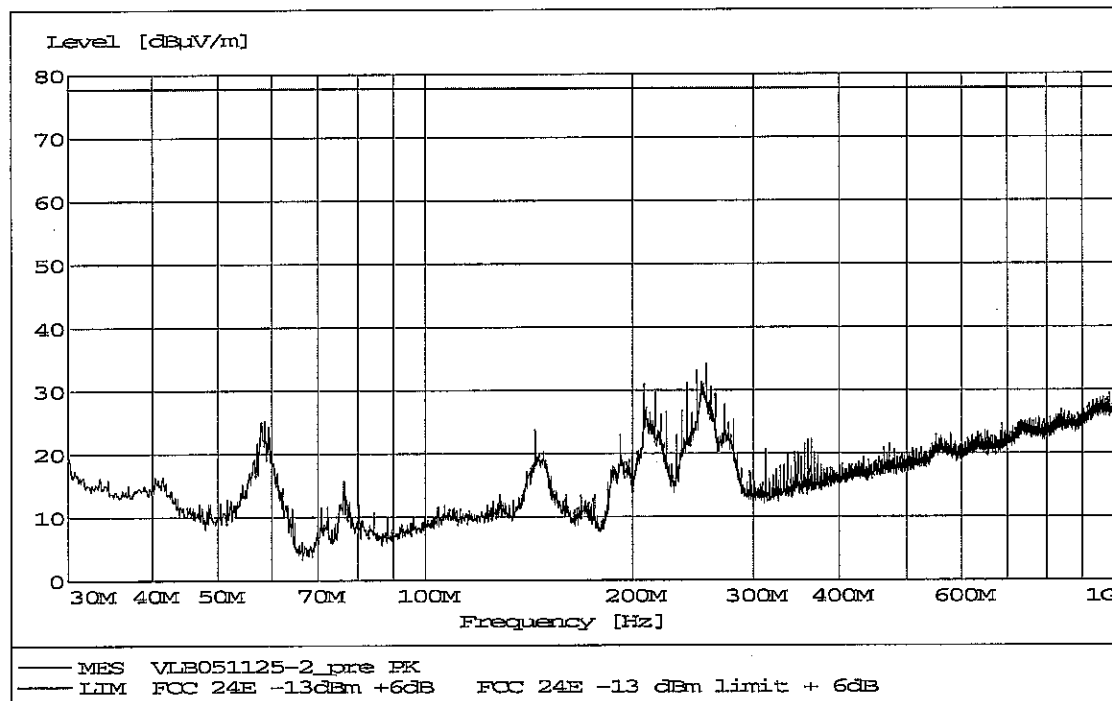
Semi-anechoic shielded chamber

Date of test: November 25, 2005

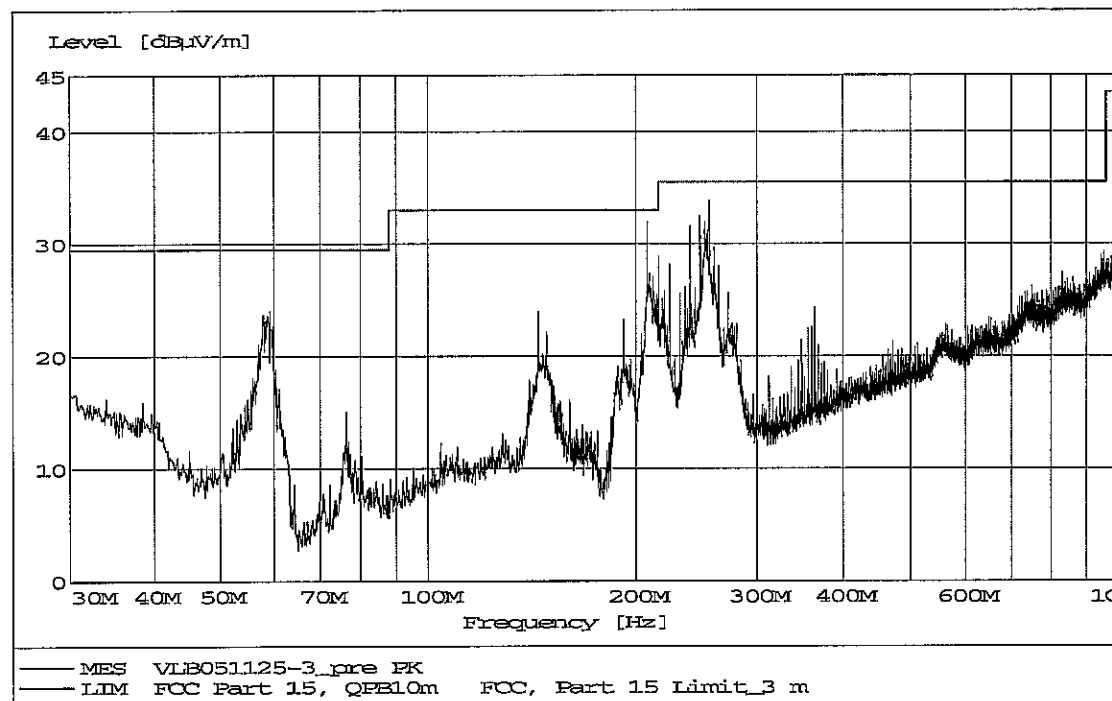
Uplink, 30 – 1000 MHz, max peak at a distance of 10 m



Downlink, 30 – 1000 MHz, max peak at a distance of 10 m



Standby mode, 30 – 1000 MHz, max peak at a distance of 10 m



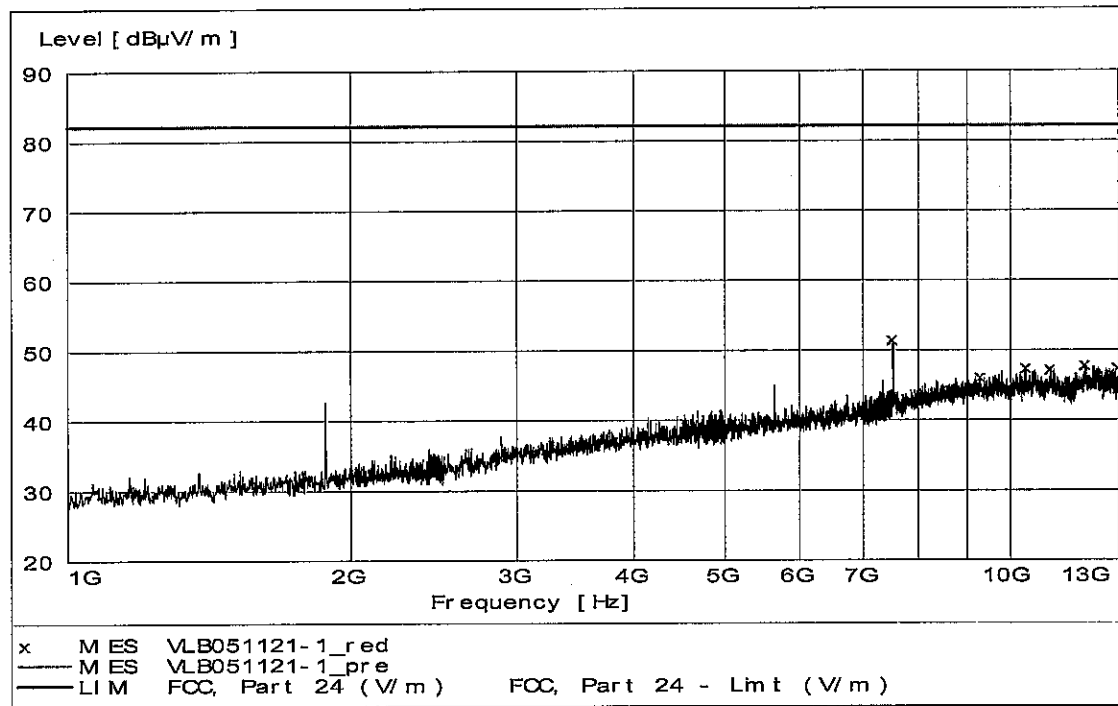
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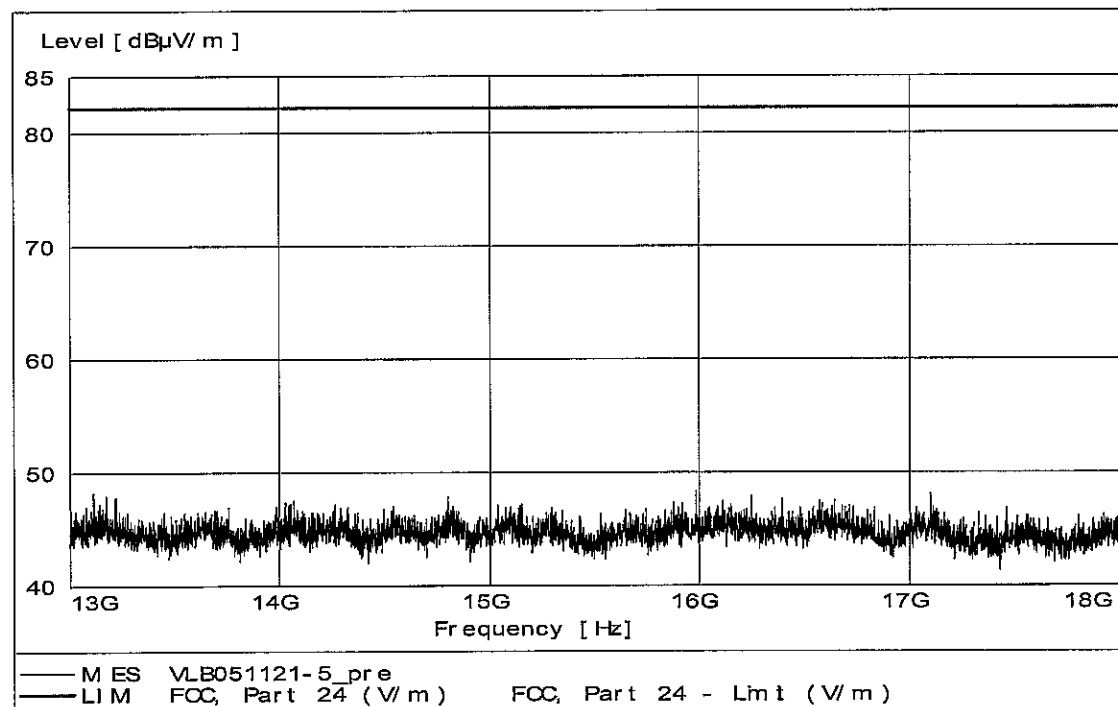
Bluetooth anechoic shielded chamber

Date of test: November 21, 2005

Uplink, 1000 – 13000 MHz, max peak at a distance of 3 m



Uplink, 13000 – 18000 MHz, max peak at a distance of 3 m



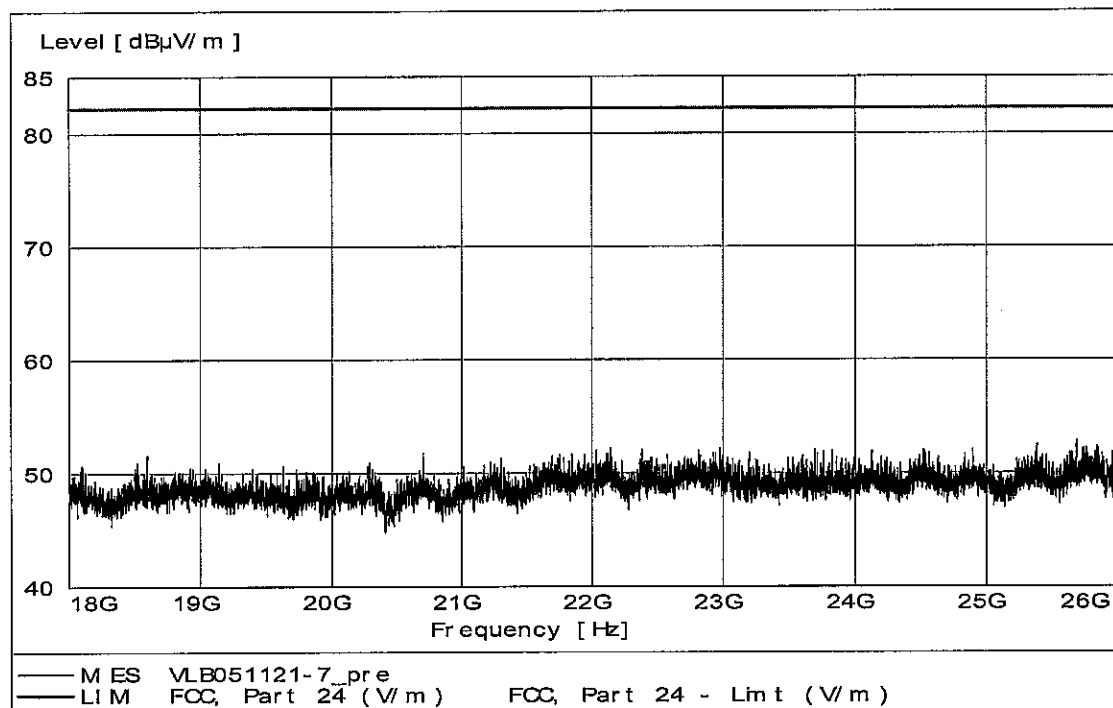
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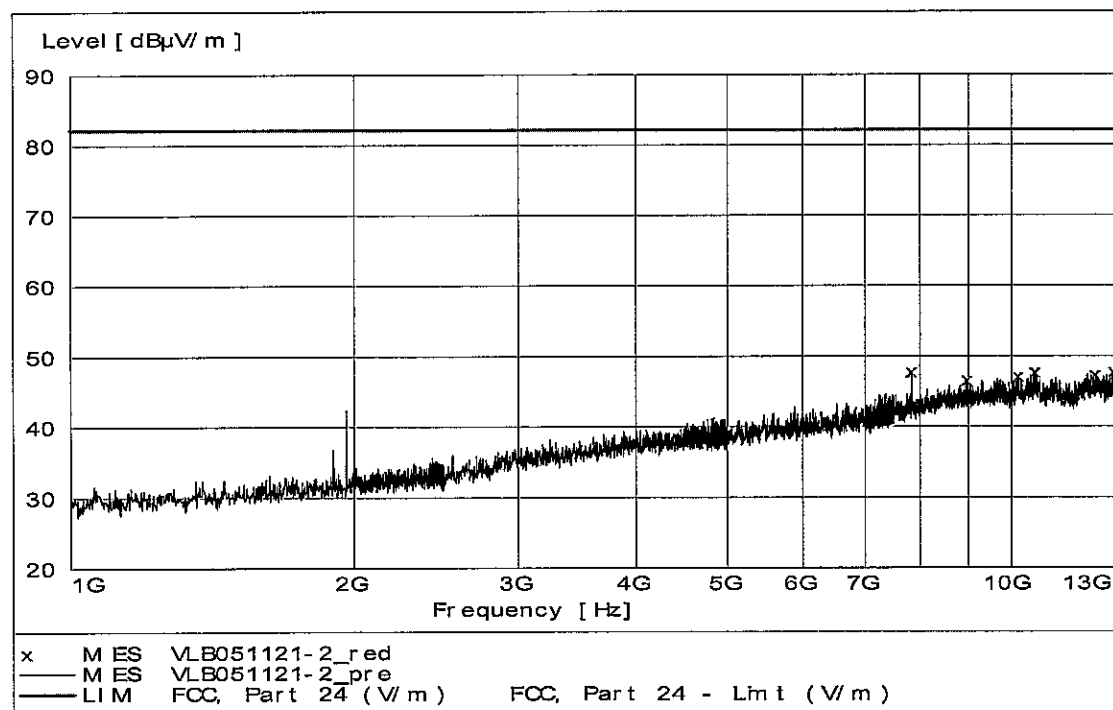
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Uplink, 18000 – 26000 MHz, max peak at a distance of 3 m



Downlink, 1000 – 13000 MHz, max peak at a distance of 3 m



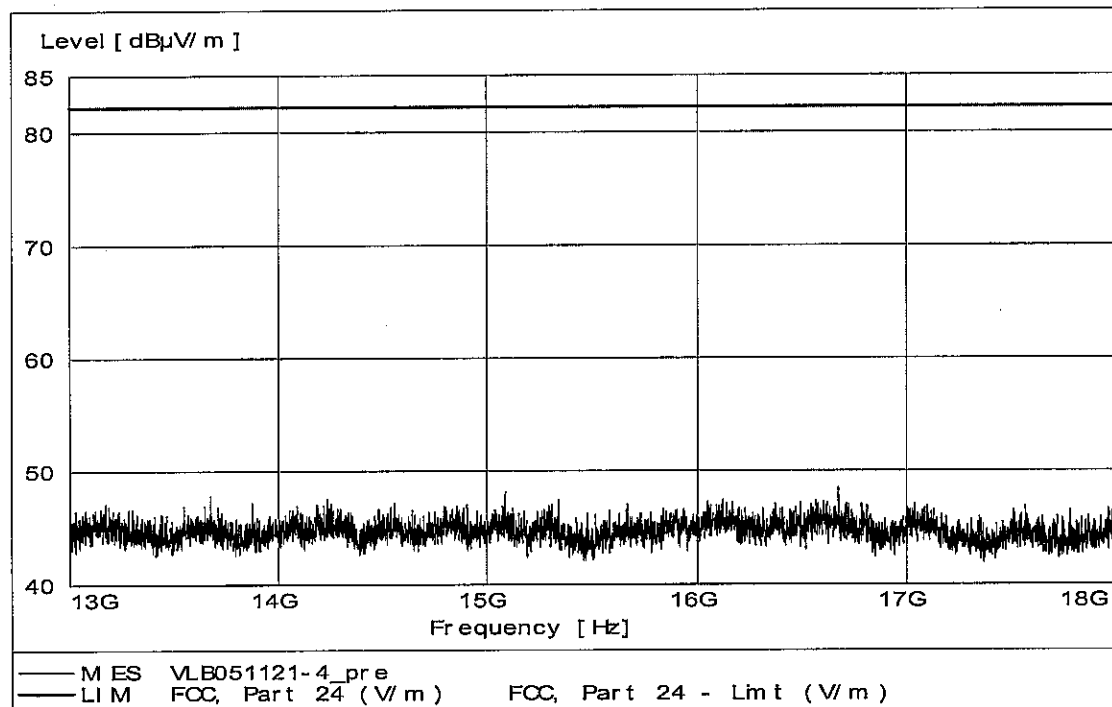
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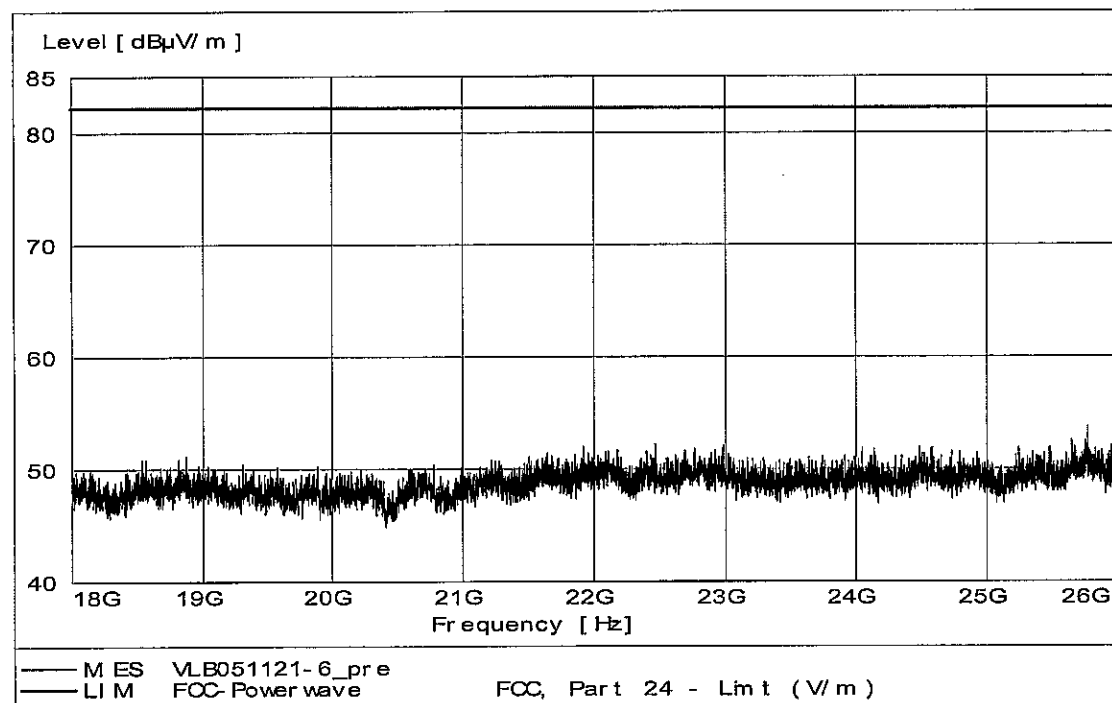
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Downlink, 13000 – 18000 MHz, max peak at a distance of 3 m



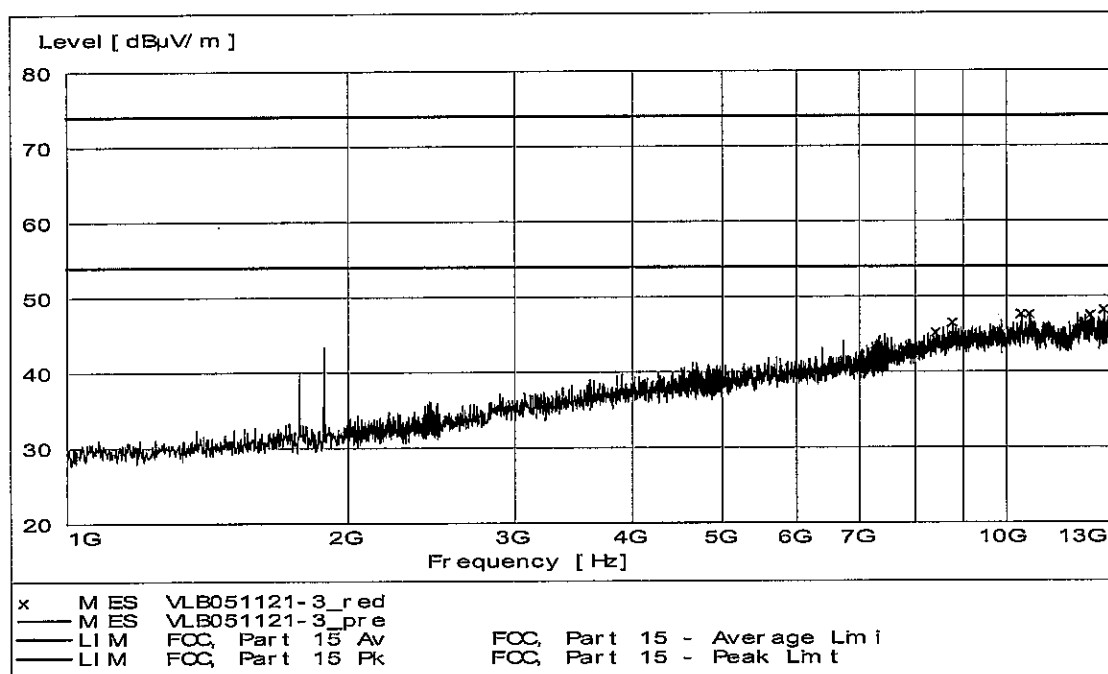
Downlink, 18000 – 26000 MHz, max peak at a distance of 3 m



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Standby mode, 1000 – 13000 MHz, max peak at a distance of 3 m



Data summary

Field strength of spurious emissions						
Frequency [MHz]	RBW [kHz]	Measured level		Limit		Note
		Peak [dB(μV/m)]	QP/AV [dB(μV/m)]	Peak [dB(μV/m)]	QP/AV [dB(μV/m)]	
208	120	-	32	-	33,1 *)	10 m distance
240	120	-	32	-	35,6	"
248	120	-	32	-	35,6	"
252	120	-	32	-	35,6	"
256	120	-	34	-	35,6 *)	"
1780	1000	40	-	74	54	3 m distance
1886	1000	43	-	74	54	"
5640	1000	52	-	82,2	-	"
7520	100	58	-	82,2	-	"
7840	1000	57	-	82,2	-	"
13000 – 18000	1000	<49	-	82,2	-	Background noise level
18000 – 26000	1000	<53	-	82,2	-	Background noise level

Note: *) See Note 1 in Section 4, Test Summary.

The limit for spurious emissions in TX mode was calculated according to FCC § 24.238 (a): "The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB".

The limit for spurious emissions in standby mode at 10 m test distance was calculated using an inverse linear extrapolation factor 20 dB/decade.

Example calculation:

Measured level [dBμV/m] = Analyser reading [dBμV] + cable loss [dB] – preamplifier gain [dB] + antenna factor [1/m]

Intertek Semko AB

Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden

Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com

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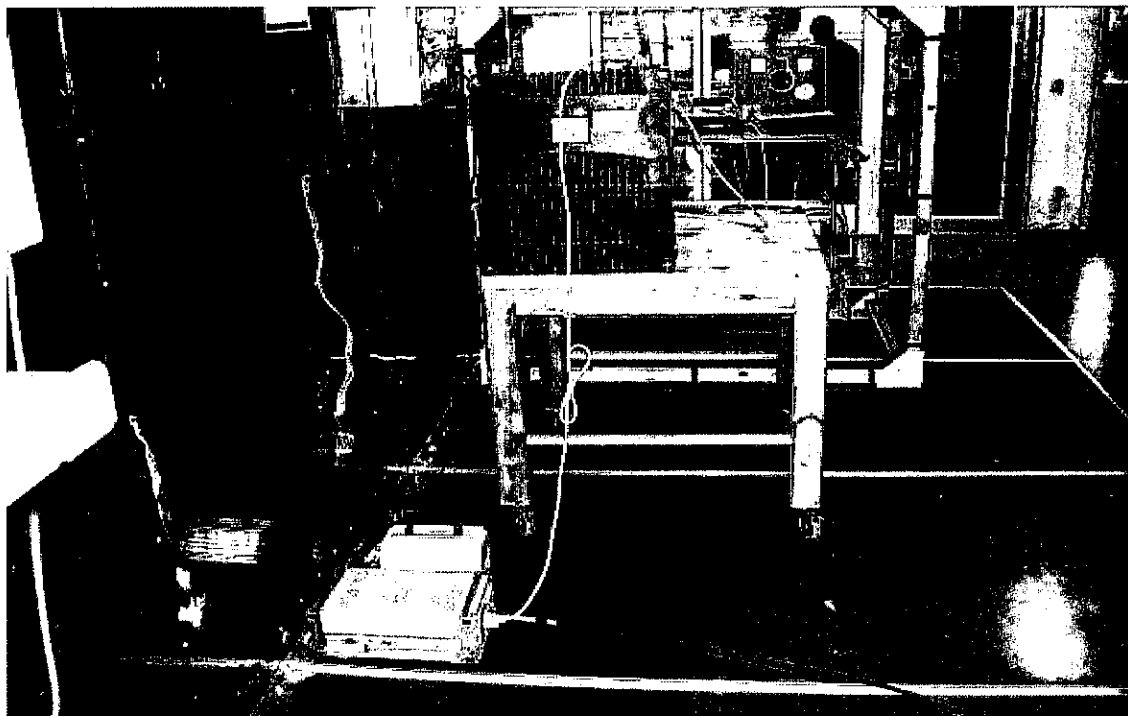
10. CONDUCTED DISTURBANCE VOLTAGE AT AC TERMINAL

10.1 Measurement set-up

The mains terminal disturbance voltage was measured with the EUT located 0,8 m above the ground plane and 0,4 m from the vertical ground plane. The EUT was connected to an artificial mains network (AMN). The AMN was placed on the ground plane. Amplitude measurements were performed with a quasi-peak detector.

The EUT was supplied by 120 VAC (60 Hz) during the test.

Test set-up photo:



10.2 Test protocol

Date of test: November 22, 2005

Frequency /MHz	Quasi-Peak	
	Disturbance Level /dB(μV)	Permitted limit /dB(μV)
0,15	48	66
0,47	37	57
0,71	41	56
0,83	48	56
10,00	40	60
19,88	36	60



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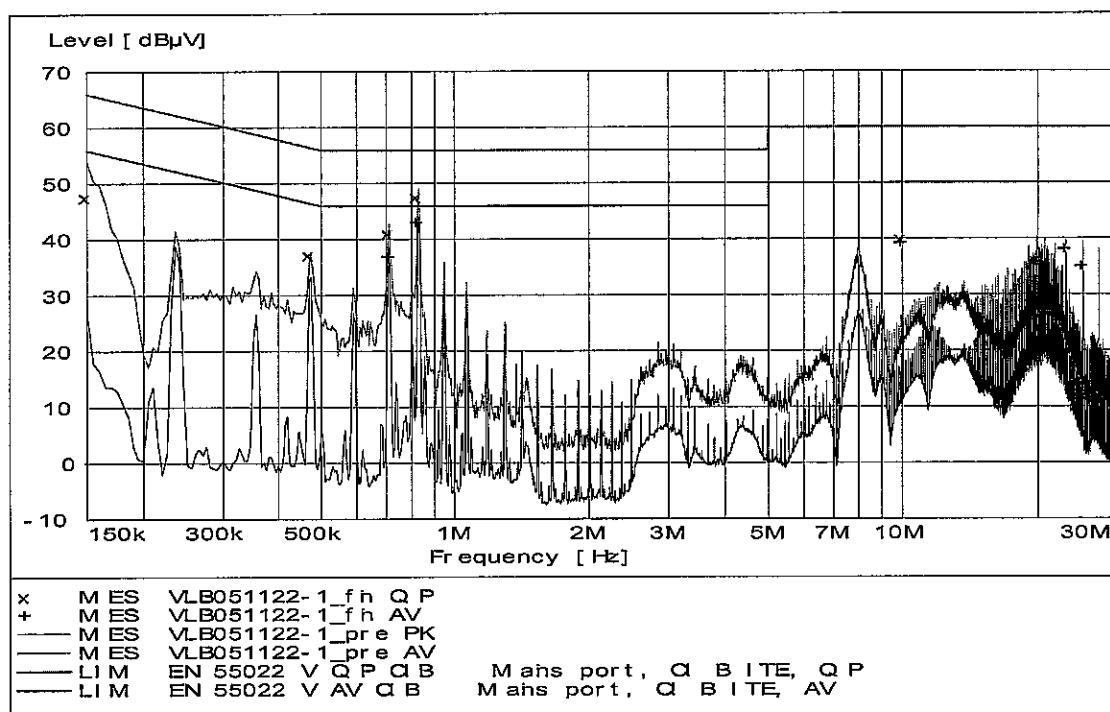
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Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com

Registered in Sweden: No SE556024059901, Registered office: As address

Frequency /MHz	Average	
	Disturbance Level /dB(μV)	Permitted limit /dB(μV)
0,71	37	46
0,83	43	46
10,00	40	50
20,00	36	50
23,07	38	50
25,16	35	50

Overview sweeps performed with peak and average detectors



Intertek Semko AB

Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden

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APPENDIX I – INSTRUMENTATION LIST

Equipment	Manufacturer	Type	SEMKO No.
Spectrum analyser	Rohde & Schwarz	FSIQ40	40023
Spectrum analyser	Hewlett-Packard	8593E	6661
Display unit	Rohde & Schwarz	ESAI	2973
Measurement receiver	Rohde & Schwarz	ESAI	2974
Measurement receiver	Rohde & Schwarz	ESHS 30	4946
Signal generator	Rohde & Schwarz	SMIQ03B	40018
Rubidium reference	Philips	PM6685R/071	5616
Rubidium reference	DATUM	8040 Class 1	40032
RF Distribution box	DATUM	6502	40031
Power supply preamplifier	SEMKO	-	7993
Preamplifier	MITEQ	AFS6/AFS44	12335
Artificial mains network	Rohde & Schwarz	ESH3-Z5	2727
Antenna	Chase-bilog	CBL6111A	971
Antenna	EMCO	3115	4936
Antenna	EMCO	3160-08	30099
Antenna	EMCO	3160-09	30101
Transformer	Tufvassons	AFM1500	375
Transformer	Tufvassons	AFM1500	30317
Attenuator	Aeroflex/Weinschel	46-10-34	9443
Attenuator	Aeroflex/Weinschel	46-10-34	9444
Termination 50 •	Rohde & Schwarz	RNB	8780
Climate chamber	Vötsch	VC018	12282



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APPENDIX II – UNCERTAINTIES SUMMARY

All uncertainties are given with a level of confidence of approximately 95% (k=2).

Measurement uncertainty for radiated disturbance

Uncertainty for the frequency range 30 to 300 MHz using a biconical or a combination antenna at 10 m	± 4,6 dB
Uncertainty for the frequency range 200 to 1000 MHz using a logperiodic or a combination antenna at 10 m	± 4,6 dB
Uncertainty for the frequency range 1000 to 18000 MHz using a horn antenna at 3 m	± 6,0 dB

Measurement uncertainty for conducted disturbances at the antenna port on radio equipment ± 3,6 dB

Measurement uncertainty for Frequency error (Radio) ± 150 Hz

Measurement uncertainty for Frequency range (Radio)

HP 8593E ± 0,2 %

Measurement uncertainty for Output power (Radio)

Digital signal, conducted	± 0,6 dB
Digital signals, radiated 1 - 18 GHz	± 3,3 dB

Measurement uncertainty for conducted disturbance voltage at AC port ± 2,0 dB

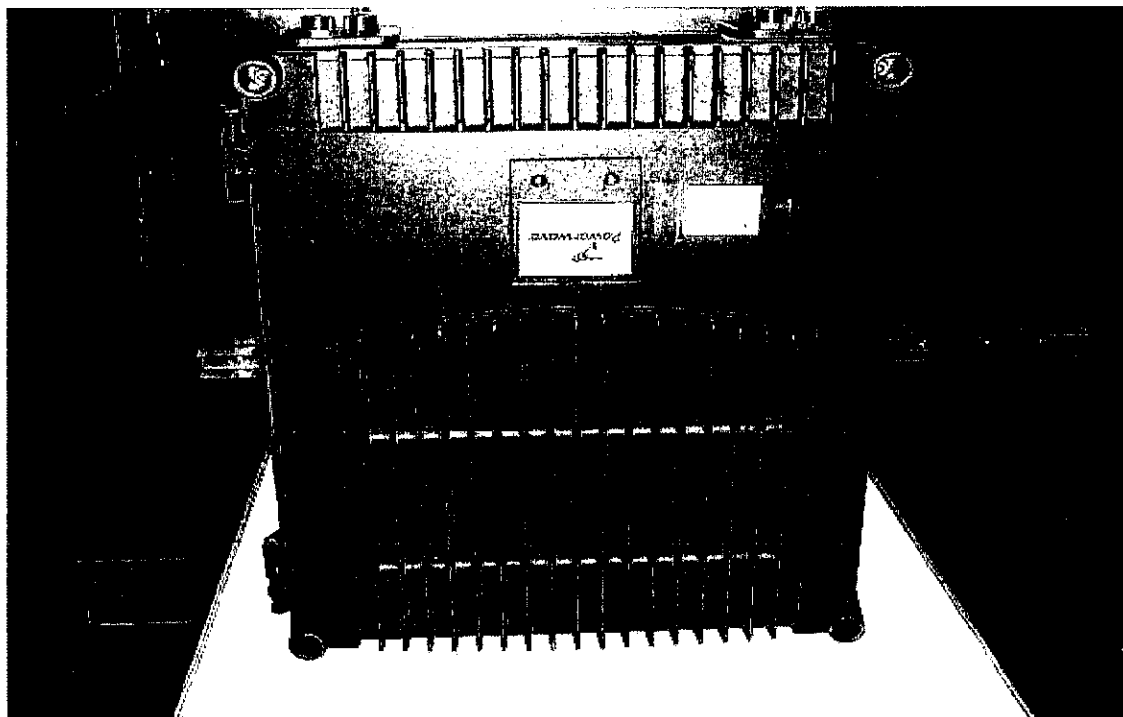


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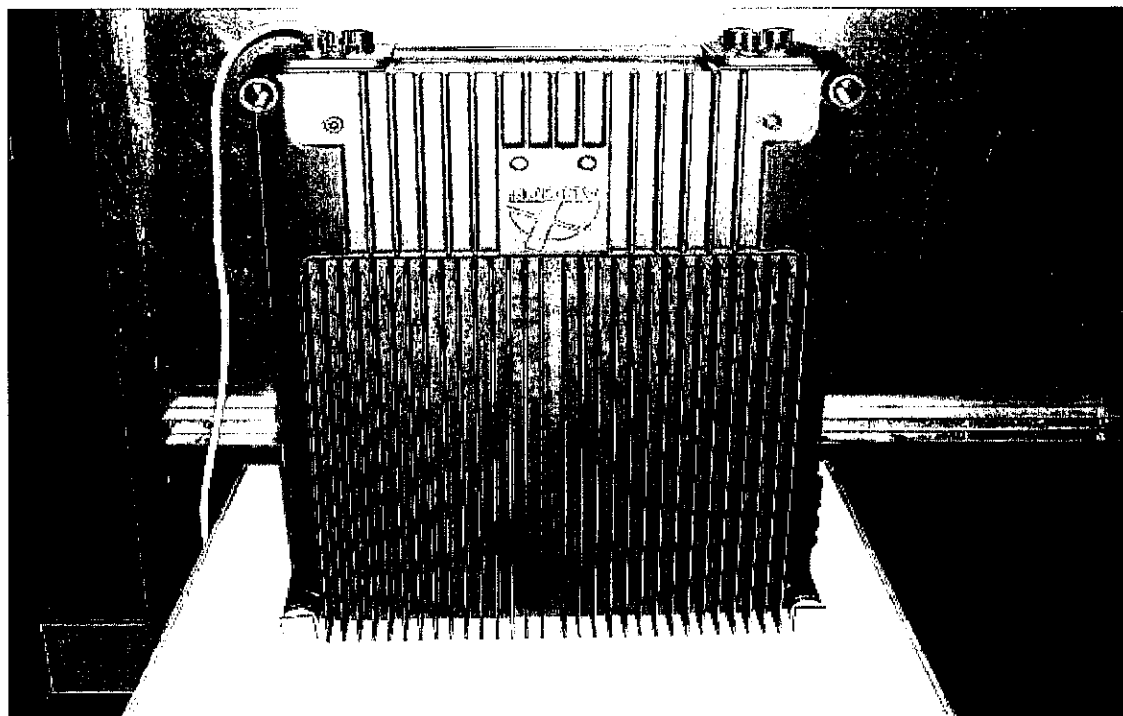
Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden
 Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com
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APPENDIX III – PHOTOS OF THE EUT

Front side



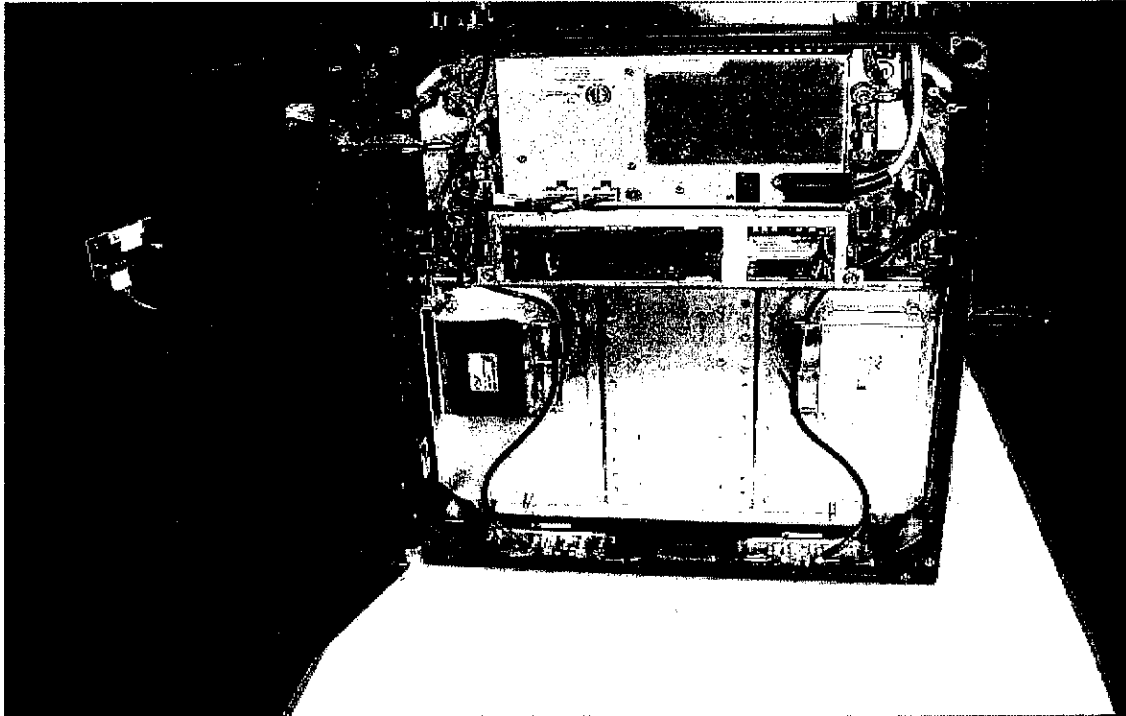
Rear side



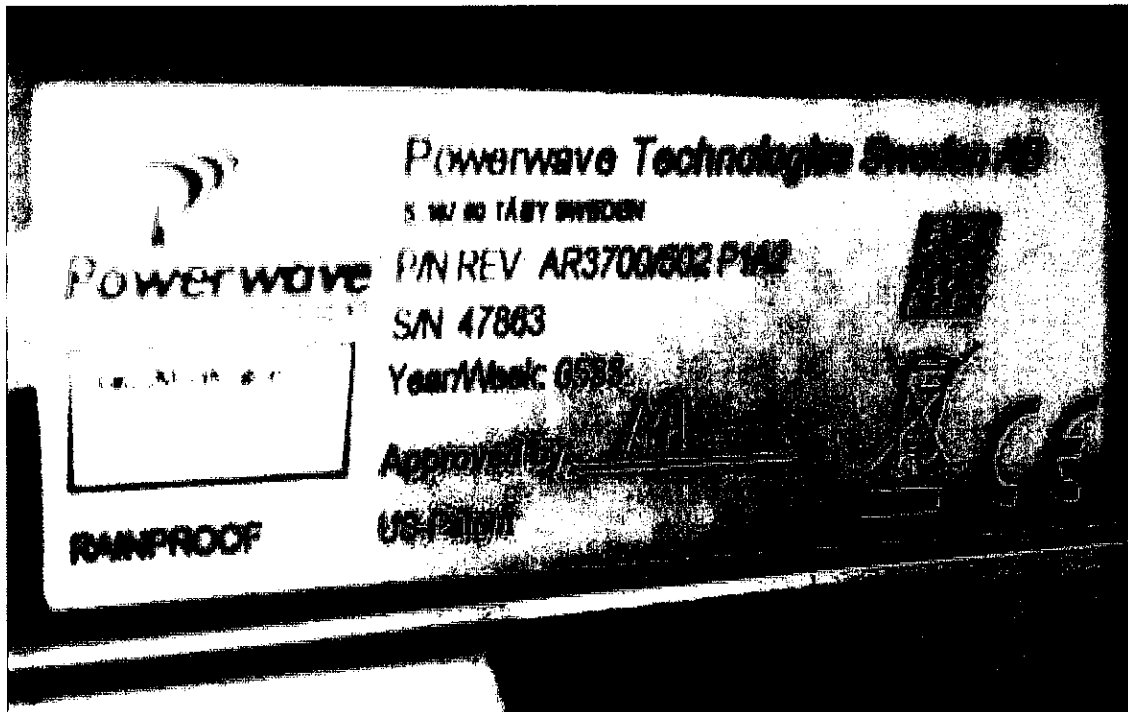
Intertek Semko AB

Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden
 Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com
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The door is opened



Identification photo



Intertek Semko AB

Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden

Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com

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