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Recognized by the Federal Communications Commission

Anechoic chamber registration no.: 90462 (FCC) Anechoic chamber registration no.: IC 3463A-1

TCB ID: DE 0001



Accredited by the German Accreditation Council DAR–Registration Number

DAT-P-176/94-D1
Deutscher
Akkreditierungs
Rat

Independent ETSI compliance test house



Accredited Bluetooth® Test Facility (BQTF)

Test report No. : 2-4506-01-03/06

Applicant : Pirelli Broadband Solutions S.p.A.

Type : DISCUS DUAL PHONE

Test Standard : FCC Part 22, 24

RSS-132, -133

FCC ID : U2K151060001 Certification No. IC : 6930A-1510600

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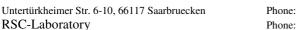
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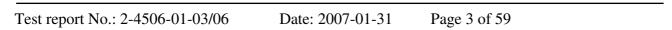
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1 General information

1.1. Administrative data of the test facility

1.1.1 Identification of the testing laboratory

Company name: Cetecom ICT Services GmbH

Address: Untertürkheimerstr. 6-10

D-66117 Saarbruecken

Germany

Laboratory accreditation: DAR-Registration No. DAT-P-176/94-D1

Bluetooth Qualification Test Facility (BQTF)

Federal Communications Commission (FCC)

Identification/Registration No: 90462

Responsible for testing laboratory: Michael Berg

Phone: +49 681 598 0 Fax: +49 681 598 9075 email: info@ict.cetecom.de

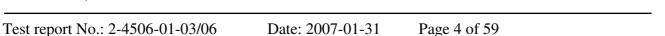
1.2. Notes

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 generalizations 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.

Responsible for testing (Harro Ames)

Responsible for laboratory (Michael Berg)





1.3 Details of Applicant

Name : Pirelli Broadband Solutions S.p.A.

Address : Viale Sarca 222 City : 20126 Milan

Country : Italy

Phone : +39 02 6442 9378

Fax : +39 02 6442 3455

Contact : M. Massimo Lo Iacono
Phone : +39 02 6442 9378

Fax : +39 02 6442 3455

e-mail : massimo.loiacono@pirelli.com

1.4 Application Details

Date of receipt of application : 2006-12-12 Date of receipt of test item : 2006-12-12

Date(s) of test : 2006-12-12 to 2007-01-30

Date of report : 2007-01-31



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1.5 Additional EUT information for IC Canada (appendix 2)

Type of equipment : Mobile phone with VoIP over WLAN (b/g-mode)

Type name : DISCUS DUAL PHONE

Manufacturer : Pirelli Broadband Solutions S.p.A.

Address : Viale Sarca 222 City : 20126 Milan

Country : Italy

Frequency : 1850.2 – 1909.8 MHz
Type of modulation : 300KGXW (GMSK)
Number of channels : 300 (PCS1900)

Antenna Type : Build-in

Power supply (normal) : 3.7V DC via battery
Output power GSM 1900 / GMSK : cond : 28.7 dBm Peak
EIRP: 30.0 dBm (Burst)

Transmitter Spurious (worst case) < 4 μW

Receiver Spurious (worst case)

No spurious found

FCC ID : U2K151060001 Certification No. IC : 6930A-1510600 Open Area Test Site IC No. : IC 3463A-1

IC Standards : RSS132, Issue 2, RSS133, Issue 3

ATTESTATION:

DECLARATION OF COMPLIANCE:

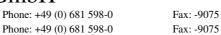
I declare that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions specified in the Industry Canada standards and all of the requirements of the standard have been met.

drus

Laboratory Manager:

2007-01-31 Harro Ames

Date Name Signature



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1.6 Test Setup

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Hardware : 715_02 Software : 3.98

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Mobile; (cond. measurements) : 352789010251223 Mobile; (rad. measurements) : 352789010251223

1.7 Test Standards

FCC: CFR Part 22 H CFR Part 24 E

IC: RSS 132, Issue 2 RSS 133, Issue 3









2 **Statement of Compliance**

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

Summary of Measurement Results 2.1

2.1.1 **PCS 1900**

RSC-Laboratory

Section in	Test Name	Verdict
this Report		
3.1.1	RF Power Output	pass
3.1.2	Frequency Stability	pass
3.1.3	Radiated Emissions	pass
3.1.4	Receiver Radiated Emissions	pass
3.1.5	Conducted Spurious Emissions	pass
3.1.6	Block Edge Compliance	pass
3.1.7	Occupied Bandwidth	pass



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3 Measurements and results

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For Part 24/22 we use the substitution method (TIA/EIA 603).

All measurements in this report are done in GSM mode. The device is able to transmit data in GPRS mode also. But because the current measurements are performed in PEAK mode no other results from GPRS mode are possible. The only different is the modulation average power, which is 3 dB higher (by using 2 timeslots in the Up-link).

3.1 PART PCS 1900

3.1.1 RF Power Output

Reference

FCC:	CFR Part 24.232, 2.1046
IC:	RSS 133, Issue 3, Section 4.3

Summary:

This paragraph contains both average/peak output power and EIRP measurements for the mobile station. In all cases, the peak output power is within the required mask (this mask is specified in the JTC standards, TIA PN3389 Vol. 1 Chap 7, and is no FCC requirement).

Method of Measurements:

The mobile was set up for the max. output power with pseudo random data modulation.

The power was measured with R&S Signal Analyzer FSU 50 (peak and average)

This measurements were done at 3 frequencies, 1850.2 MHz, 1880.0 MHz and 1909.8 MHz (bottom, middle and top of operational frequency range).

Limits:

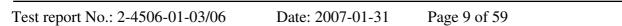
Power Step	Nominal Peak Output Power (dBm)	Tolerance (dB)
0	+30	± 2

Test Results: Output Power (conducted)

		Peak	Average		
Frequency	Power Class	Output Power	Output Power		
(MHz)		(dBm)	(dBm)		
1850.2	0	28.7	28.6		
1880.0	0	28.6	28.5		
1909.8	0	28.5	28.4		
Measurement uncertain	nty	±0.5 dB	±0.5 dB		

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EIRP Measurements

Description:

This is the test for the maximum radiated power from the phone.

Rule Part 24.232(b) specifies that "Mobile/portable stations are limited to 2 watts e.i.r.p. peak power..." and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Measuring the EIRP of Spurious/Harmonic Emissions using Substitution Method

- (a) The measurements was performed with full rf output power and modulation.
- (b) Test was performed at listed 3m test site (listed with FCC, IC).
- (c) The transmitter under test was placed at the specified height on a non-conducting turntable (80 cm height)
- (d) The BICONICAL antenna (25 MHz to 200 MHz), LOGPER antenna (200 to 1000 MHz) or HORN antenna (1 GHz to 18 GHz) was used for measuring.
- (e) Load an appropriate correction factors file in EMI Receiver for correcting the field strength reading level Total Correction Factor recorded in the EMI Receiver = Cable Loss + Antenna Factor

E (dBuV/m) = Reading (dBuV) + Total Correction Factor (dB/m)

(f) Set the EMI Receiver and #2 as follows:

Center Frequency: test frequency

Resolution BW: 100 kHz

Video BW: same

Detector Mode: positive

Average: off

Span: 3 x the signal bandwidth

- (g) The test antenna was lowered or raised from 1 to 4 meters until the maximum signal level was detected.
- (h) The transmitter was rotated through 360 o about a vertical axis until a higher maximum signal was received.
- (i) The test antenna was lowered or raised again from 1 to 4 meters until a maximum was obtained. This level was recorded.
- (j) The recorded reading was corrected to the true field strength level by adding the antenna factor, cable loss and subtracting the pre-amplifier gain.
- (k) The above steps were repeated with both transmitters' antenna and test receiving antenna placed in vertical and horizontal polarization. Both readings with the antennas placed in vertical and horizontal polarization shall be recorded.
- (1) Repeat for all different test signal frequencies



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Measuring the EIRP of Spurious/Harmonic Emissions using Substitution Method

(a) Set the EMI Receiver (for measuring E-Field) and Receiver #2 (for measuring EIRP) as follows:

Center Frequency : equal to the signal source

Resolution BW : 10 kHz
Video BW : same
Detector Mode : positive
Average : off

Span : 3 x the signal bandwidth

(b) Load an appropriate correction factors file in EMI Receiver for correcting the field strength reading level

Total Correction Factor recorded in the EMI Receiver = Cable Loss + Antenna Factor

E(dBuV/m) = Reading(dBuV) + Total Correction Factor(dB/m)

(c) Select the frequency and E-field levels for ERP/EIRP measurements.

(d) Substitute the EUT by a signal generator and one of the following transmitting antenna (substitution antenna):

DIPOLE antenna for frequency from 30-1000 MHz or .HORN antenna for frequency above 1 GHz }.

(e) Mount the transmitting antenna at 1.5 meter high from the ground plane.

(f) Use one of the following antenna as a receiving antenna: .DIPOLE antenna for frequency from 30-1000 MHz or .HORN antenna for frequency above 1 GHz }.

- (g) If the DIPOLE antenna is used, tune it's elements to the frequency as specified in the calibration manual.
- (h) Adjust both transmitting and receiving antenna in a VERTICAL polarization.
- (i) Tune the EMI Receivers to the test frequency.
- (j) Lower or raise the test antenna from 1 to 4 meters until the maximum signal level was detected.
- (k) The transmitter was rotated through 360 o about a vertical axis until a higher maximum signal was received.
- (l) Lower or raise the test antenna from 1 to 4 meters until the maximum signal level was detected.
- (m) Adjust input signal to the substitution antenna until an equal or a known related level to that detected from the transmitter was obtained in the test receiver.
- (n) Record the power level read from the Average Power Meter and calculate the ERP/EIRP as follows:

P = P1 - L1 = (P2 + L2) - L1 = P3 + A + L2 - L1

EIRP = P + G1 = P3 + L2 - L1 + A + G1

ERP = EIRP - 2.15 dB

Total Correction factor in EMI Receiver # 2 = L2 - L1 + G1

Where: P: Actual RF Power fed into the substitution antenna port after corrected.

P1: Power output from the signal generator

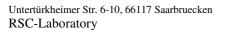
P2: Power measured at attenuator A input

P3: Power reading on the Average Power Meter

EIRP: EIRP after correction

ERP: ERP after correction

- (o) Adjust both transmitting and receiving antenna in a HORIZONTAL polarization, then repeat step (k) to (o)
- (p) Repeat step (d) to (o) for different test frequency
- (q) Repeat steps (c) to (j) with the substitution antenna oriented in horizontal polarization.
- (r) Actual gain of the EUT's antenna is the difference of the measured EIRP and measured RF power at the RF port. Correct the antenna gain if necessary.



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Limits:

Power Step	Burst PEAK EIRP (dBm)
0	<33

Test Results: Output Power (radiated)

Frequency		BURST PEAK EIRP
(MHz)	Power Class	(dBm)
1850.2	0	30.0
1880.0	0	29.2
1909.8	0	28.9
Measurement uncertainty	±3 dB	

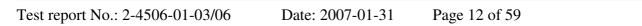
Sample Calculation:

Freq	SA	SG	Ant.	Dipol	Cable	EIRP			
	Reading	Setting	gain	gain	loss	Result			
MHz	dBμV	dBm	dBi	dBd	dB	dBm			
1850.2	128.2		8.4	0.0	3.3				

EIRP = SG (dBm) - Cable Loss (dB) + Ant. gain (dBi)

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3.1.2 Frequency Stability

Reference

FCC: CFR Part 24.235, 2.1055
IC: RSS 133, Issue 3, Section 4.2

Method of Measurement:

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the mobile station in a "call mode". This is accomplished with the use of a R&S CMU 200 DIGITAL RADIOCOMMUNICATION TESTER..

- 1. Measure the carrier frequency at room temperature.
- 2. Subject the mobile station to overnight soak at -30 C.
- 3. With the mobile station, powered with Vnom, connected to the CMU 200 and in a simulated call on channel 661 (center channel), measure the carrier frequency. These measurements should be made within 2 minutes of powering up the mobile station, to prevent significant self warming.
- 4. Repeat the above measurements at 10 C increments from -30 C to +60 C. Allow at least 1 1/2 hours at each temperature, un-powered, before making measurements.
- 5. Re-measure carrier frequency at room temperature with Vnom. Vary supply voltage from Vmin to Vmax, in 12 steps re-measuring carrier frequency at each voltage. Pause at Vnom for 1 1/2 hours un-powered, to allow any self heating to stabilize, before continuing.
- 6. Subject the mobile station to overnight soak at +60 C.
- 7. With the mobile station, powered with Vnom, connected to the CMU 200 and in a simulated call on channel 661(center channel), measure the carrier frequency. These measurements should be made within 2 minutes of powering up the mobile station, to prevent significant self warming.
- 8. Repeat the above measurements at 10 C increments from +60 C to -30 C. Allow at least 1 1/2 hours at each temperature, un-powered, before making measurements.
- 9. At all temperature levels hold the temperature to +/- 0.5 C during the measurement procedure.

Measurement Limit:

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block..



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Test Results: AFC FREQ ERROR vs. VOLTAGE

Voltage	Frequency Error	Frequency Error	Frequency Error
(V)	(Hz)	(%)	(ppm)
3.3	+20	0,0000106	0,0106
3.4	+25	0,0000133	0,0133
3.5	+27	0,0000144	0,0144
3.6	+27	0,0000144	0,0144
3.7	+28	0,0000149	0,0149
3.8	+28	0,0000149	0,0149
3.9	+28	0,0000149	0,0149
4.0	+28	0,0000149	0,0149
4.1	+30	0,0000160	0,0160
4.2	+33	0,0000176	0,0176
4.3	+33	0,0000176	0,0176
4.4	+34	0,0000181	0,0181

Test Results: AFC FREQ ERROR vs. TEMPERATURE

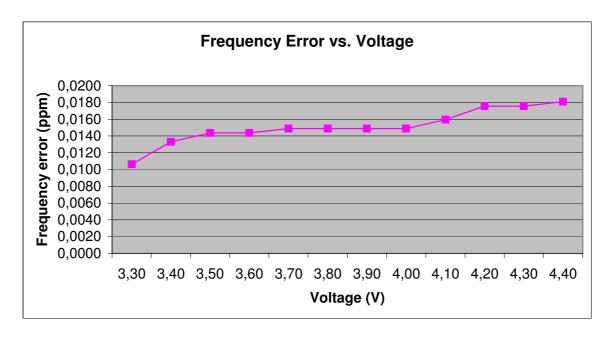
TEMPERATURE	Frequency Error	Frequency Error	Frequency Error
(°C)	(Hz)	(%)	(ppm)
-30	+33	0,0000176	0,0176
-20	+33	0,0000176	0,0176
-10	+31	0,0000165	0,0165
±0.0	+30	0,0000160	0,0160
+10	+28	0,00000149	0,0149
+20	+28	0,0000149	0,0149
+30	+27	0,0000144	0,0144
+40	+23	0,00000122	0,0122
+50	+21	0,00000112	0,0112
+60	+19	0,0000101	0,0101

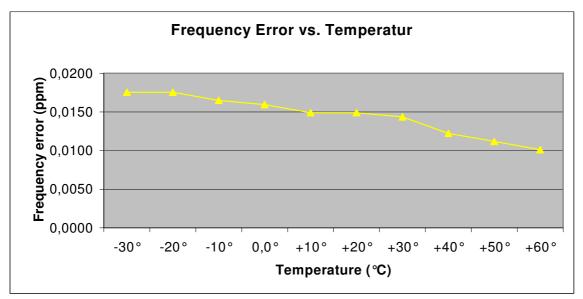
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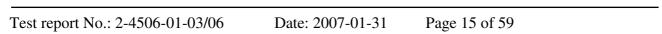
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3.1.3 Radiated Emissions

Reference

FCC: CFR Part 24.238, 2.1053
IC: RSS 133, Issue 3, Section 4.4

Measurement Procedure:

The following steps outline the procedure used to measure the radiated emissions from the mobile station. The site is constructed in accordance with ANSI C63.4:2003 requirements and is recognized by the FCC to be in compliance for a 3 and a 10 meter site. The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. This was rounded up to 20 GHz. The resolution bandwidth is set as outlined in Part 24.238. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the USPCS band.

The final open field emission (here 10m semi-anechoic chamber listed by FCC) test procedure is as follows:

- a) The test item was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna.
- b) The antenna output was terminated in a 50 ohm load.
- c) A double ridged waveguide antenna was placed on an adjustable height antenna mast 3 meters from the test item for emission measurements.
- d) Detected emissions were maximized at each frequency by rotating the test item and adjusting the receive antenna height and polarization. The maximum meter reading was recorded. The radiated emission measurements of the harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and I MHz bandwidth. If the harmonic could not be detected above the noise floor, the ambient level was recorded.
- e) Now each detected emissions were substituted by the Substitution method, in accordance with the TIA/EIA 603.

Measurement Limit:

Sec. 24.238 Emission Limits.

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

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Measurement Results: Radiated Emissions

Radiated emissions measurements were made only at the upper, center, and lower carrier frequencies of the USPCS band (1850.2 MHz, 1880.0 MHz and 1909.8 MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the USPCS band into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

The final open field radiated levels are presented on the next table.

All measurements were done in horizontal and vertical polarization, the plots show the worst case. As can be seen from this data, the emissions from the test item were within the specification limit.

Harmonic	Tx ch512	Level	Tx ch661	Level	Tx ch810	Level
	Freq. (MHz)	(dBm)	Freq. (MHz)	(dBm)	Freq. (MHz)	(dBm)
2	3700.4	-	3760	-	3819.6	-
3	5550.6	-	5640	-	5729.4	-
4	7400.8	-	7520	-	7639.2	-
5	9251.0	-	9400	-	9549.0	-
6	11101.2	-	11280	-	11458.8	-
7	12951.4	-	13160	-	13368.6	-
8	14801.6	-	15040	-	15278.4	-
9	16651.8	-	16920	-	17188.2	-
10	18502.0	-	18800	-	19098.0	-

No peaks found < 20 dB below limit.

Sample calculation:

Freq	SA	SG	Ant.	Dipol	Cable	EIRP		
	Reading	Setting	gain	gain	loss	Result		
MHz	dΒμV	dBm	dBi	dBd	dB	dBm		
1880.0	122.5		8.4	0.0	3.33			

EIRP = SG (dBm) - Cable Loss (dB) + Ant. gain (dBi)

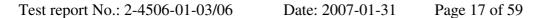
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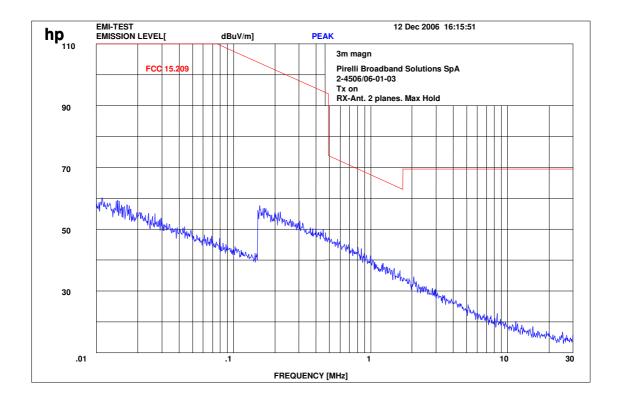
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CETECOM



Traffic mode up to 30 MHz (Valid for all 3 channels)



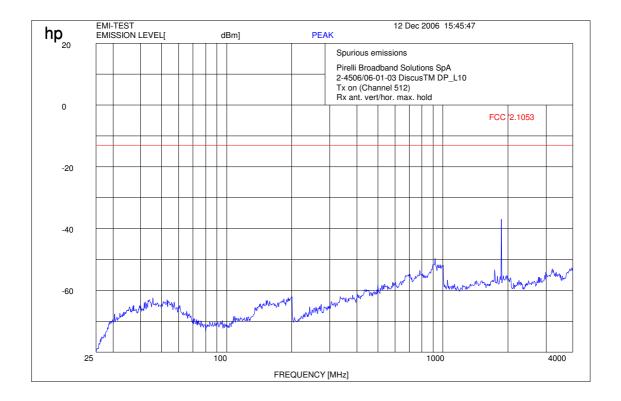
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 512 (30 MHz - 4 GHz)



f < 1 GHz : RBW/VBW: 100 kHz $f \ge 1 \text{ GHz} : RBW / VBW 1 \text{ MHz}$

Carrier suppressed with a rejection filter

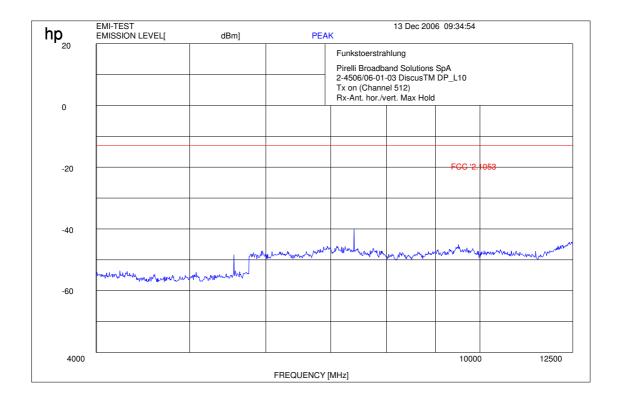
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Channel 512 (4 GHz – 12.5 GHz)



f < 1 GHz : RBW/VBW : 100 kHz $f \ge 1 \text{GHz} : \text{RBW / VBW 1 MHz}$

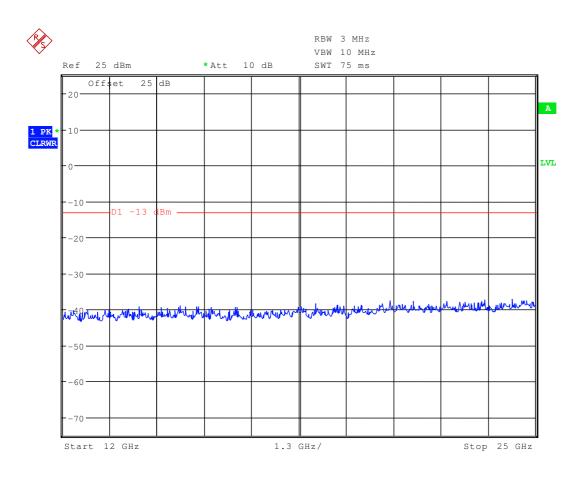
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Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 512 (12 GHz - 25 GHz) valid for all 3 channels



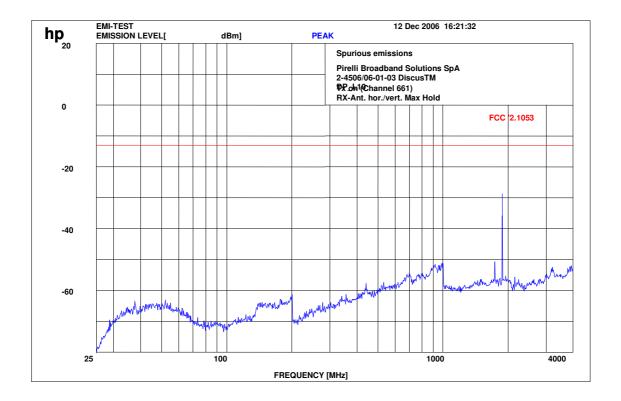
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 661 (30 MHz - 4 GHz)



f < 1 GHz: RBW/VBW: 100 kHz $f \ge 1 \text{GHz}: RBW / VBW 1 \text{ MHz}$

Carrier suppressed with a rejection filter

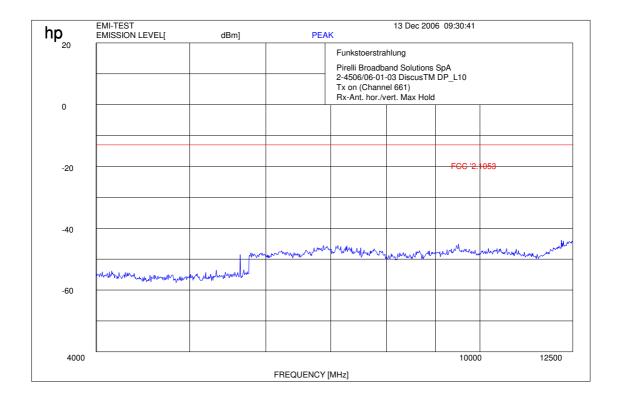
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 661 (4 GHz – 12.5 GHz)



f < 1 GHz : RBW/VBW : 100 kHz $f \ge 1 \text{GHz} : \text{RBW / VBW 1 MHz}$

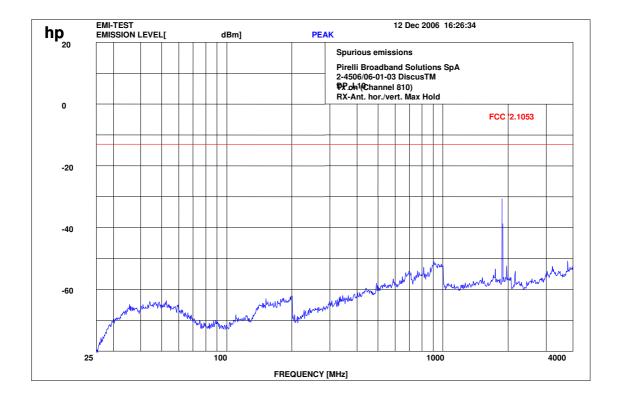
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 810 (30 MHz - 4 GHz)



f < 1 GHz : RBW/VBW : 100 kHz $f \ge 1 \text{GHz} : \text{RBW / VBW 1 MHz}$

Carrier suppressed with a rejection filter

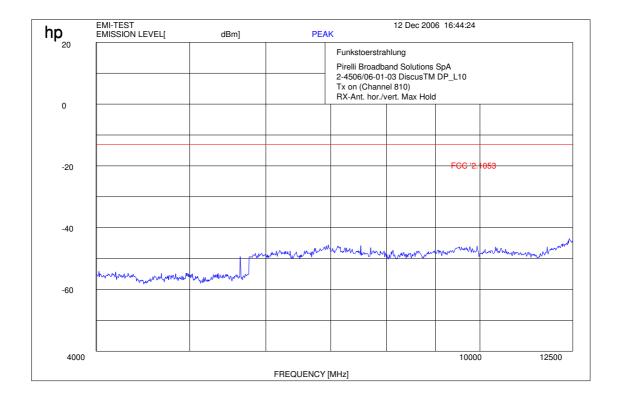
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 810 (4 GHz – 12.5 GHz)



f < 1 GHz: RBW/VBW: 100 kHz $f \ge 1 \text{ GHz}: RBW / VBW 1 \text{ MHz}$

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Fax: -9075

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3.1.4 Receiver Radiated Emissions

Reference

FCC: CFR Part 15.109, 2.1053 IC: RSS 133, Issue 3, Section 4.5

Measurement Results

SPURIOUS EMISSIONS LEVEL (μV/m)								
	Idle mode							
f	Detector	Level	f	Detector	Level	f	Detector	Level
(MHz)		$(\mu V/m)$	(MHz)		$(\mu V/m)$	(MHz)		$(\mu V/m)$
all	peaks	more	than	20 dB	below	limit	-	ı
-	-	-	ı	-	ı	-	-	ı
-	-	-	1	-	1	-	-	ı
-	-	-	-	-	-	-	-	-
-	-	-	1	-	1	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	_	-	-	-	-
-	-	-	-	-	-	-	-	-
Measurement uncertainty			±3 dB					

f < 1 GHz: RBW/VBW: 100 kHz $f \ge 1 \text{ GHz}: RBW/VBW: 1 \text{ MHz}$

H = Horizontal; V= Vertical

For measurement distance see table below

Limits: § 15.109

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

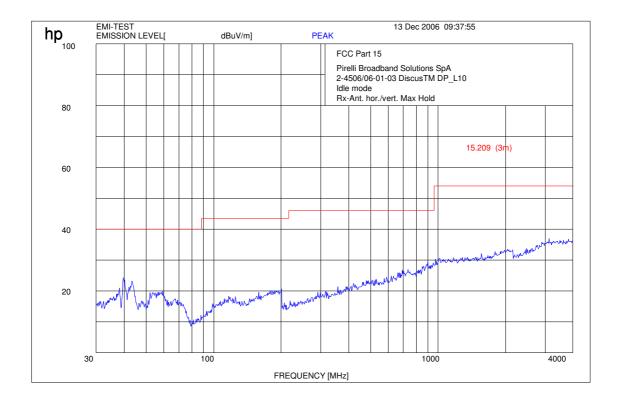
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IDLE MODE (30 MHz - 4 GHz)



f < 1 GHz : RBW/VBW: 100 kHz $f \ge 1 \text{ GHz} : RBW / VBW 1 \text{ MHz}$

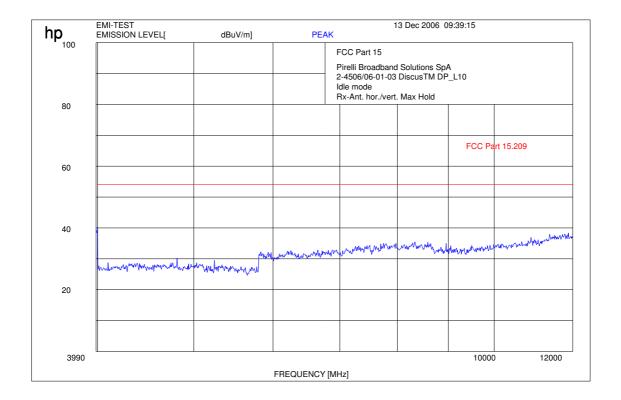
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Idle Mode (4 GHz – 12.0 GHz)



f < 1 GHz: RBW/VBW: 100 kHz $f \ge 1 \text{GHz}: RBW / VBW 1 \text{ MHz}$

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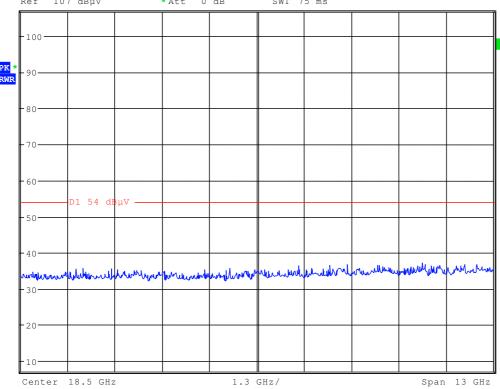
Α



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Idle Mode (12 GHz - 25 GHz)





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3.1.5 Conducted Spurious Emissions

Reference

FCC: CFR Part 24.238, 2.10.51
IC: RSS 133, Issue 3, Section 4.4

Measurement Procedure:

The following steps outline the procedure used to measure the conducted emissions from the mobile station.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency.

For the mobile station equipment tested, this equates to a frequency range of 13 MHz to 19.1 GHz, data taken from 10 MHz to 20 GHz.

2. Determine mobile station transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

USPCS Transmitter Channel Frequency:

512 1850.2 MHz

661 1880.0 MHz

810 1909.8 MHz

Measurement Limit:

(a) On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

Measurement Results:

Harmonic	Tx ch512	Level	Tx ch661	Level	Tx ch810	Level
	Freq. (MHz)	(dBm)	Freq. (MHz)	(dBm)	Freq. (MHz)	(dBm)
2	3700.4	-	3760	-	3819.6	-
3	5550.6	-	5640	-	5729.4	-
4	7400.8	-29.7	7520	-31.6	7639.2	-31.7
5	9251.0	-32.4	9400	-	9549.0	-
6	11101.2	-	11280	-	11458.8	-
7	12951.4	-	13160	-	13368.6	-
8	14801.6	-	15040	-	15278.4	-
9	16651.8	-	16920	-	17188.2	-
10	18502.0	-	18800	-	19098.0	-

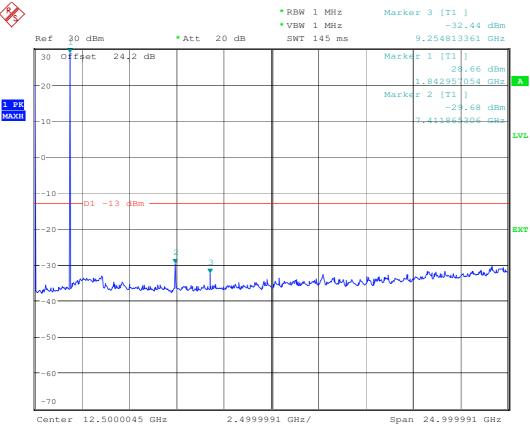
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel: 512



Date: 30.JAN.2007 11:47:33

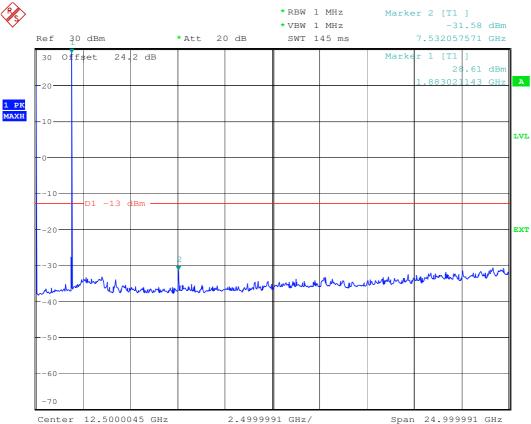
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

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Channel 661



Date: 30.JAN.2007 11:54:09

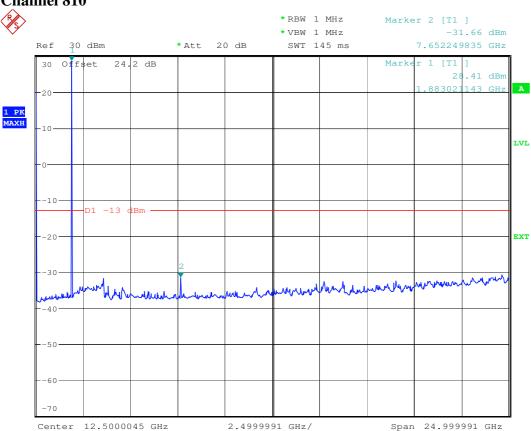
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 810



Date: 30.JAN.2007 11:55:29

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3.1.6 Block Edge Compliance

Reference

FCC:	CFR Part 24.238
IC:	RSS 133, Issue 3, Section 6.5

Measurement Limit:

(a) On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

Measured with RMS detector.

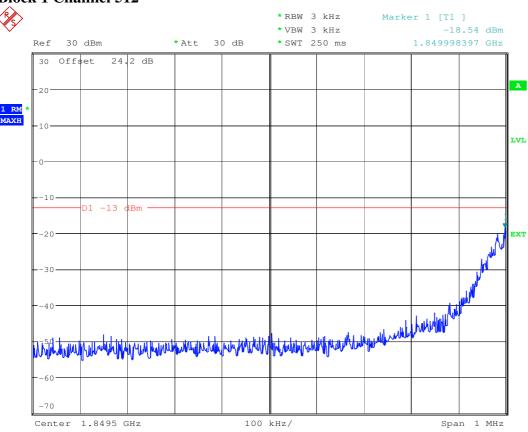
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Block 1 Channel 512



Date: 30.JAN.2007 11:57:04

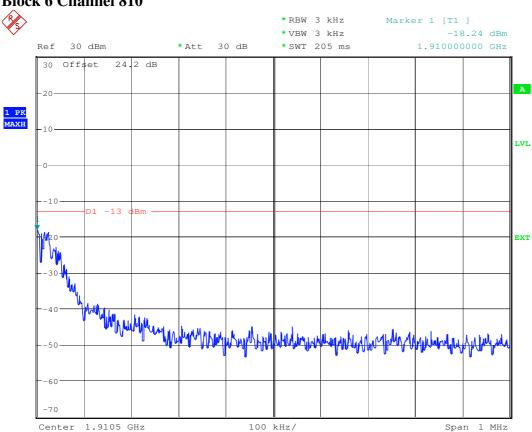
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Block 6 Channel 810



Date: 30.JAN.2007 11:57:57

Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075





3.1.7 Occupied Bandwidth

Reference

FCC:	CFR Part 24.238, 2.1049
IC:	RSS 133, Issue 3, Section 6.5

Occupied Bandwidth Results

Similar to conducted emissions, occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the USPCS frequency band. Table 8.2 below lists the measured 99% power and -26dBC occupied bandwidths. Spectrum analyzer plots are included on the following pages.

Normal mode

Frequency	99% Occupied Bandwidth	-26 dBc Bandwidth	
	kHz	kHz	
1850.2 MHz	267.628	310.897	
1880.0 MHz	258.013	302.885	
1909.8 MHz	278.846	310.893	

Part 24.238 (a) requires a measurement bandwidth of at least 1% of the occupied bandwidth. For ca. 300.0 kHz, this equates to a resolution bandwidth of at least 3.0 kHz. For this testing, a resolution bandwidth 3.0 kHz was used.

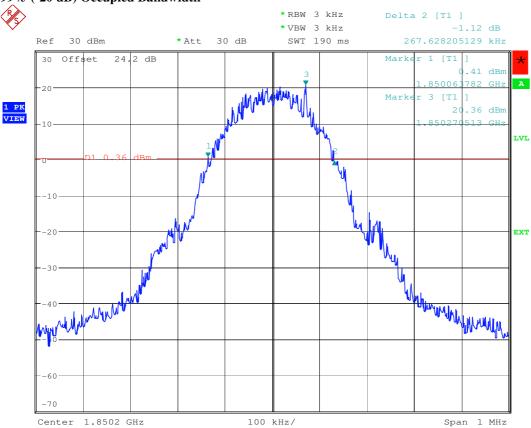
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Channel 512 99% (-20 dB) Occupied Bandwidth



Date: 30.JAN.2007 12:01:35

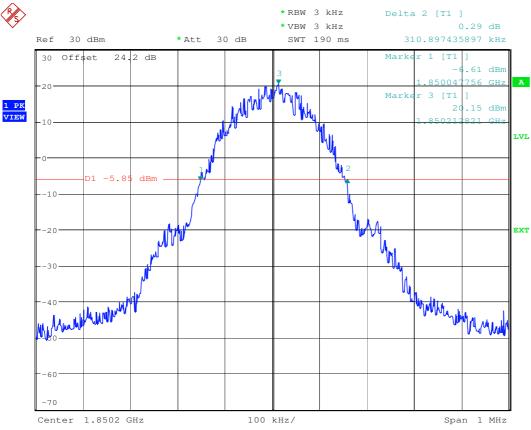
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Channel 512 -26 dBc Bandwidth



Date: 30.JAN.2007 12:04:09

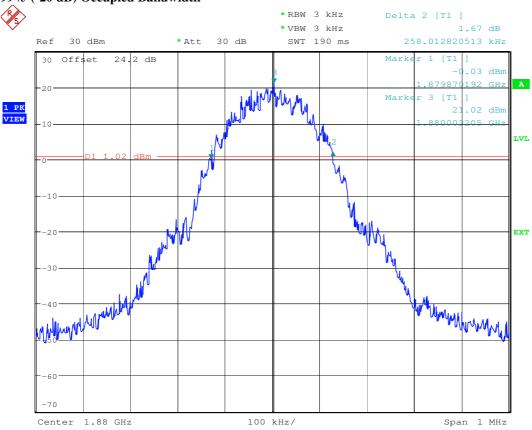
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 661 99% (-20 dB) Occupied Bandwidth



Date: 30.JAN.2007 12:06:05

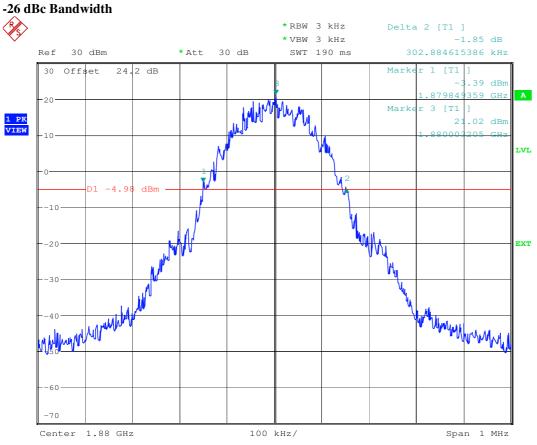
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 661



Date: 30.JAN.2007 12:06:56

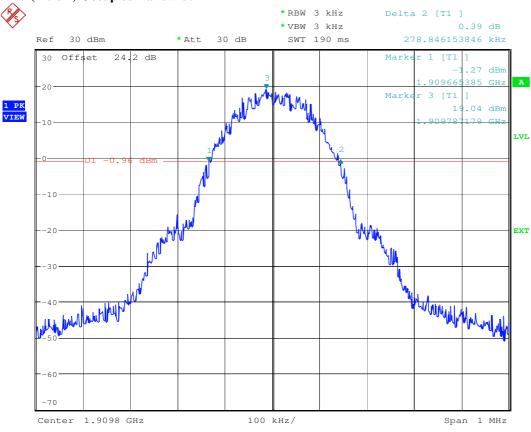
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 810 99% (-20 dB) Occupied Bandwidth



Date: 30.JAN.2007 12:08:52

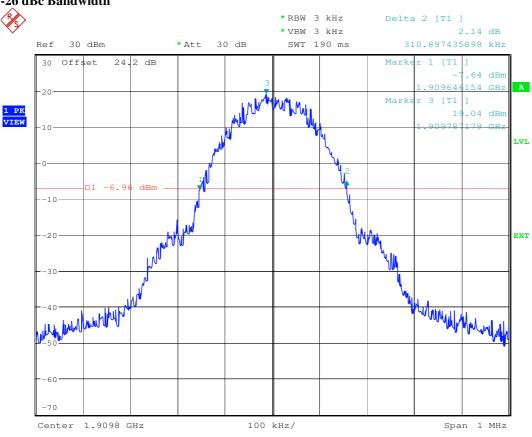
Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



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Channel 810 -26 dBc Bandwidth



Date: 30.JAN.2007 12:09:27

Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075



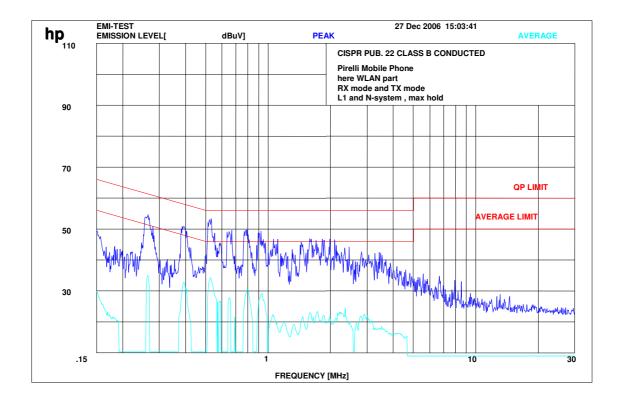
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3.1.8 AC-conducted measurement FCC Part 15 Subpart B

Reference

FCC: CFR Part 15.207, 15.107

IC: RSS 210, Issue 6, Section 6.6, 7.4



All peaks above the average limit were manually remeasured. All final values were > 15 dB below limit.

Limits: § 15.107 / 15.207

Frequency of Emission (MHz)	Conducted Limit (dBµV)		
	Quasi-peak	Average	
0.15 - 0.5	66 to 56 *	56 to 46 *	
0.5 - 5	56	46	
5 - 30	60	50	

^{*} Decreases with the logarithm of the frequency

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4 Used Test Equipment

1. Ar 2. Bi 3. Lc 4. Dc 5. Ac 6. Lc 7. Sp 8. Sp dis 9. Qt 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Ur co Li 18. Ar 19. Ar mc 20. Ac 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic (N 7. Sp 7. Sp 8. Sp 9. Qt 10. RI 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Ur co Li 18. Ar 19. Ar mc 20. Ac 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic (N 7. Sp 7. Sp 8. Sp 9. Qt 10. Ri 11. W 12. So 13. Po 13. Po 14. Ba 15. Ba 16. Po 17. Cr 18. Ar 19. Ar mc 19. Ar mc 19. Ar mc 19. Ar mc 20. Ac 30. Po 31. Po 32. Po 33. Po 34. Sp 35. Ac 36. Cc 37. Sp 36. Sp 37. Sp 38. Sp 38. Sp 39. Qt 31. Po 33. Po 34. Sp 35. Sp 36. Sp 36. Sp 37. Sp 37. Sp 37. Sp 38. Sp 38. Sp 38. Sp 39. Sp 30. Po 31. Po 33. Po 33. Po 33. Po 33. Po 33. Po 33. Po 34. Sp 35. Sp 36. Sp 36. Sp 37. Sp 37. Sp 37. Sp 38. Sp 39. Sp 30. Sp 31. Po 33. Po 33. Po 33. Po 33. Po 34. Sp 36. Sp 37. Sp 37. Sp 38. Sp 38. Sp 39. Sp 30. Sp	Ancillary Anechoic chamber Anechoic chamber Bi conical antenna Log. Per. antenna Double ridge horn Active loop antenna Loop antenna Spectrum analyzer Spectrum analyzer display Quasi peak adapter RF pre selector Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	MWB EMCO EMCO EMCO EMCO Rohde & Schwarz Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Rohde & Schwarz	3104C 3146 3115P 6502 HFH2-Z2 8566B 85662A 85650A 85650A 85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a DF-971A		30000996 300002590 300001603 300001032 300001015 300001169 300001000 300002297 300000999 40000081 300001688 300001688 300001595 300003350 300003351 300001040 300003231	
1. Ar 2. Bi 3. Lc 4. Dc 5. Ac 6. Lc 7. Sp 8. Sp dis 9. Qt 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Ur co Li 18. Ar 19. Ar mc 20. Ac 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic (N 7. Sp 7. Sp 8. Sp 9. Qt 10. RI 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Ur co Li 18. Ar 19. Ar mc 20. Ac 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic (N 7. Sp 7. Sp 8. Sp 9. Qt 10. Ri 11. W 12. So 13. Po 13. Po 14. Ba 15. Ba 16. Po 17. Cr 18. Ar 19. Ar mc 19. Ar mc 19. Ar mc 19. Ar mc 20. Ac 30. Po 31. Po 32. Po 33. Po 34. Sp 35. Ac 36. Cc 37. Sp 36. Sp 37. Sp 38. Sp 38. Sp 39. Qt 31. Po 33. Po 34. Sp 35. Sp 36. Sp 36. Sp 37. Sp 37. Sp 37. Sp 38. Sp 38. Sp 38. Sp 39. Sp 30. Po 31. Po 33. Po 33. Po 33. Po 33. Po 33. Po 33. Po 34. Sp 35. Sp 36. Sp 36. Sp 37. Sp 37. Sp 37. Sp 38. Sp 39. Sp 30. Sp 31. Po 33. Po 33. Po 33. Po 33. Po 34. Sp 36. Sp 37. Sp 37. Sp 38. Sp 38. Sp 39. Sp 30. Sp	Anechoic chamber Bi conical antenna Log. Per. antenna Double ridge horn Active loop antenna Loop antenna Loop antenna Spectrum analyzer Spectrum analyzer display Quasi peak adapter RF pre selector Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Analog-/Digital multi- meter	MWB EMCO EMCO EMCO EMCO Rohde & Schwarz Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Rohde & Schwarz t Range Devices	3146 3115P 6502 HFH2-Z2 8566B 85662A 85650A 85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	9909-4868 2130 3088 2210 891847-35 2747A05306 2816A16541 2811A01131 2833A00768 1530 7 11 2818A03450 103992	300002590 300001603 300001032 300001015 300001169 300001000 300002297 300000999 40000081 300001688 300001595 300003350 300003351 300003351 300003231	
2. Bi 3. Lc 4. Dc 5. Ac 6. Lc 7. Sp 8. Sp dis 9. Qc 10. Rt 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Cc Li 18. Ar 19. Ar mo 20. Ac 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 35. Ac 55. Ac 56. Cl 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 34. Po 34. Po 35. Po 36. Po 36. Po 37.	Bi conical antenna Log. Per. antenna Double ridge horn Active loop antenna Loop antenna Loop antenna Spectrum analyzer Spectrum analyzer display Quasi peak adapter RF pre selector Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multi- meter	EMCO EMCO EMCO EMCO Rohde & Schwarz Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Rohde & Schwarz t Range Devices	3146 3115P 6502 HFH2-Z2 8566B 85662A 85650A 85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	9909-4868 2130 3088 2210 891847-35 2747A05306 2816A16541 2811A01131 2833A00768 1530 7 11 2818A03450 103992	300002590 300001603 300001032 300001015 300001169 300001000 300002297 300000999 40000081 300001688 300001595 300003350 300003351 300003351 300003231	
3. Lc 4. Dc 5. Ac 6. Lc 7. Sp 8. Sp dis 9. Qc 10. Rf 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Un 20. Au 30 21. Bi 22. Cc 24. Di 25. Di 26. Fic 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 35. Ac 36. Cl	Log. Per. antenna Double ridge horn Active loop antenna Loop antenna Spectrum analyzer Spectrum analyzer display Quasi peak adapter RF pre selector Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	EMCO EMCO EMCO Rohde & Schwarz Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Rohde & Schwarz t Range Devices	3115P 6502 HFH2-Z2 8566B 85662A 85650A 85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200	2130 3088 2210 891847-35 2747A05306 2816A16541 2811A01131 2833A00768 1530 7 11 2818A03450 103992 928979	300001032 300001015 300001169 300001000 300002297 300000999 400000081 300001688 300001688 30000183 300003351 300003351 300003351 300003231	
4. Do 5. Ac 6. Lc 7. Sp 8. Sp dis 9. Qt 10. Rf 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Un 20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po 33. Po 33. Po 33. Po 33. Po 35. Ac 36. Cc 27. Fr 28. Cl	Double ridge horn Active loop antenna Loop antenna Spectrum analyzer Spectrum analyzer display Quasi peak adapter RF pre selector Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	EMCO Rohde & Schwarz Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Wainwright Wainwright Hewlett-Packard Rohde & Schwarz	6502 HFH2-Z2 8566B 85662A 85650A 85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	3088 2210 891847-35 2747A05306 2816A16541 2811A01131 2833A00768 1530 7 11 2818A03450 103992 928979	300001032 300001015 300001169 300001000 300002297 300000999 400000081 300001688 300001688 30000183 300003351 300003351 300003351 300003231	
5. Ac 6. Lc 7. Sp 8. Sp dis 9. Qc 10. Ri 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Ur 20. At 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po 33. Po 33. Po 33. Po 33. Po 35. Sp 4 Sp 4 Sp 4 Sp 6	Active loop antenna Loop antenna Loop antenna Spectrum analyzer Spectrum analyzer Spectrum analyzer display Quasi peak adapter RF pre selector Workstation Software Power attenuator Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	EMCO Rohde & Schwarz Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Wainwright Wainwright Hewlett-Packard Rohde & Schwarz	6502 HFH2-Z2 8566B 85662A 85650A 85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	2210 891847-35 2747A05306 2816A16541 2811A01131 2833A00768 1530 7 111 2818A03450 103992	300001015 300001169 300001000 300002297 300000999 40000081 300001688 300000983 300001595 300003350 300003351 300001040 300003231	
6. Lc 7. Sp 8. Sp dis 9. Qt 10. Ri 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Un 20. At 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po 33. Po 33. Po 33. Po 35. Sp 4 Sp 4 Sp 6 Sp 6 Sp 6 Sp 6 Sp 7	Loop antenna Spectrum analyzer Spectrum analyzer Spectrum analyzer display Quasi peak adapter RF pre selector Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Wainwright Wainwright Hewlett-Packard Rohde & Schwarz	8566B 85662A 85650A 85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	2747A05306 2816A16541 2811A01131 2833A00768 1530 7 111 2818A03450 103992	300001000 300002297 300000999 40000081 300001688 30000983 300001595 300003350 300003351 300001040 300003231	
7. Sp 8. Sp dis 9. Qt 10. RI 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Ur 20. At 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po 33. Po	Spectrum analyzer display Quasi peak adapter RF pre selector Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multi- meter	Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Wainwright Wainwright Hewlett-Packard Rohde & Schwarz	85662A 85650A 85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	2816A16541 2811A01131 2833A00768 1530 7 11 2818A03450 103992	300002297 300000999 40000081 300001688 30000983 300001595 300003350 300003351 300001040 300003231	
8. Sp dis 9. Qt dis 11. W dis 12. So dis 14. Ba 15. Ba 16. Po dis 15. Ba 16. Po dis 17. Un co dis 18. An dis 19. Ct dis 19. Qt	display Quasi peak adapter RF pre selector Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multi- meter	Hewlett-Packard Hewlett-Packard Hewlett-Packard Hewlett-Packard Byrd Wainwright Wainwright Hewlett-Packard Rohde & Schwarz	85650A 85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	2811A01131 2833A00768 1530 7 11 2818A03450 103992	300000999 40000081 300001688 30000983 300001595 300003350 300003351 300001040 300003231	
10. RI 11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Ur 18. Ar 19. Ar 19. Ar 19. Ar 20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po 33. Po	RF pre selector Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	Hewlett-Packard Hewlett-Packard Hewlett-Packard Byrd Wainwright Wainwright Hewlett-Packard Rohde & Schwarz	85685A Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	2833A00768 1530 7 11 2818A03450 103992 928979	40000081 30001688 30000983 300001595 300003350 300003351 300001040 300003231	
11. W 12. So 13. Po 14. Ba 15. Ba 16. Po 17. Ur co La 18. Ar 19. Ar mo 20. Au 30 21. Bi 22. Cc 24. Di 25. Di 26. Fic 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Workstation Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	Hewlett-Packard Hewlett-Packard Byrd Wainwright Wainwright Hewlett-Packard Rohde & Schwarz	Vectra VL EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	1530 7 11 2818A03450 103992	300001688 30000983 300001595 300003350 300003351 300001040 300003231	
12. So 13. Po 14. Ba 15. Ba 16. Po 17. Un co Li 18. Ar 19. Ar mo 20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fin 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Software Power attenuator Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	Hewlett-Packard Byrd Wainwright Wainwright Hewlett-Packard Rohde & Schwarz	EMI Halle C 8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	7 11 2818A03450 103992 928979	30000983 300001595 300003350 300003351 300001040 300003231	
13. Po 14. Ba 15. Ba 16. Po 17. Ur co Li 18. Ar 19. Ar mo 20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fie (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Power attenuator Band reject filter Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	Byrd Wainwright Wainwright Hewlett-Packard Rohde & Schwarz t Range Devices	8325 WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	7 11 2818A03450 103992 928979	300001595 300003350 300003351 300001040 300003231	
14. Ba 15. Ba 16. Po 17. Un co La 18. An 19. An mo 20. Au 30 21. Bi 22. Cc 24. Di 25. Di 26. Fic (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Band reject filter Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	Wainwright Wainwright Hewlett-Packard Rohde & Schwarz t Range Devices	WRCG1855/1910 WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	7 11 2818A03450 103992 928979	300003350 300003351 300001040 300003231 300003143	
15. Ba 16. Po 17. Un co 18. An 19. An mo 20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fic (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Band reject filter Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	Wainwright Hewlett-Packard Rohde & Schwarz t Range Devices	WRCG2400/2483 6032A CMU 200 js42-00502650- 28-5a	11 2818A03450 103992 928979	300003351 300001040 300003231 300003143	
16. Po 17. Ur co 18. Ar 19. Ar me 20. Au 30 21. Bi 22. Cc 24. Di 25. Di 26. Fie (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Power supply unit Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	Hewlett-Packard Rohde & Schwarz t Range Devices	6032A CMU 200 js42-00502650- 28-5a	2818A03450 103992 928979	300001040 300003231 300003143	
17. Ur co Li 18. Ar 19. Ar mo 20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fie (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Universal communication tester Laboratories Shor Amplifier Analog-/Digital multimeter	Rohde & Schwarz t Range Devices	CMU 200 js42-00502650- 28-5a	928979	300003231	
20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 26. Fie (N 27. Fr. 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Laboratories Shor Amplifier Analog-/Digital multimeter	t Range Devices	js42-00502650- 28-5a	928979	300003143	
18. Ar med 20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fie (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Amplifier Analog-/Digital multi- neter		28-5a			
18. Ar med 20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fie (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Amplifier Analog-/Digital multi- neter		28-5a			
19. Ar mo 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po 33. Po	Analog-/Digital multi- meter	Parzich GMBH	28-5a			
20. Au 30 21. Bi 22. Cc 23. Cc 24. Di 25. Di (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po	meter		DF-971A	438309.	400000082	
30 21. Bi 22. Cc 23. Cc 24. Di 25. Di 26. Fin (N 27. Frr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po				438320, 438361	10000002	
22. Cc 23. Cc 24. Di 25. Di 26. Fie (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po	Audio Analyzer 2Hz - 300 kHz	Rohde & Schwarz	UPD	841074/009	300001236	
23. Cc 24. Di 25. Di 26. Fie (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po	Bit error analyzer	Hewlett-Packard	37732A	3606U03073	300001446	
24. Di 25. Di 26. Fie (N 27. Fr 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po	Communication tester	Rohde & Schwarz	CMD55	831050/082	300003018	
25. Di 26. Fie (N 27. Fre 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po	Communication test Set	Schlumberger	4040	1725117	300001387	
26. Fic (N) 27. Fred 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po	Directional coupler	Amplifier Research	DC 3010	12709	300001226	
(N 27. Fro 28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po	Directional coupler	EMV	DC3010	12306	300001429	
28. Cl 29. Cl 30. Po 31. Po 32. Po 33. Po	Field strength meter (Near field probe)	EMCO	7405	9202-2150	300001203	
29. Cl 30. Po 31. Po 32. Po 33. Po	Frequency Counter	Hewlett-Packard	5386A	2704A01243	300000998	
30. Po 31. Po 32. Po 33. Po	Climatic chamber	Heraeus Voetsch	VT 4002	5,8566E+13	300003019	
31. Po 32. Po 33. Po	Climatic chamber	Heraeus Voetsch	VT 4002	521/83761	300002326	
32. Po 33. Po	Power sensor	Hewlett-Packard	8484A	2237A10156	300001140	
33. Po	Power sensor	Hewlett-Packard	8482A	2237A06016	300001139	
	Power sensor	Hewlett-Packard	8484A	2237A10494	300001666	 <u> </u>
	Power sensor	Hewlett-Packard	8482A	1925A04674	300001667	
	Power sensor	Hewlett-Packard	8485A	2238A00849	300001668	
36. Po	Power sensor Power sensor	Hewlett-Packard Hewlett-Packard	8482A 8482B	2237A06009 2703A02586	300001267 300001492	
	(attenuator)	Havelett De al 1	700004	2842 4 02221	200002010	
	Local Oscillator Measurement Receiver	Hewlett-Packard	70900A ESH 2	2842A02221 871921/095	300002019	
		Rohde & Schwarz Siemens	Multizet	0/19/1/093	300002505	
	Multi meter (Hand)	Goerz	6EP		300001102 300001116	+
	Multi-meter (Hand)	Goerz MetraWatt	MA4S		300001116	+
	Multi-meter (Hand)	Rohde & Schwarz	UDS 5	872677/042	300001740	+
	Multi-meter (Hand) Multi-meter (Hand)	Hewlett-Packard	6038A	3122A11097	300001323	+
	Multi-meter (Hand) Multi-meter (Hand) Multi-meter digital	I I I W I CH-I aCKAIU	6038A	2848A07027	300001204	+
	Multi-meter (Hand) Multi-meter (Hand) Multi-meter digital Power supply		2X30V	2007	300001174	+
	Multi-meter (Hand) Multi-meter (Hand) Multi-meter (digital Power supply Power supply	Hewlett-Packard	44XJU V	2752A04866	300001109	+
	Multi-meter (Hand) Multi-meter (Hand) Multi-meter (digital Power supply Power supply Power supply	Hewlett-Packard Zentro	6038 A		300001101	+
	Multi-meter (Hand) Multi-meter (Hand) Multi-meter (digital Power supply Power supply Power supply Power supply	Hewlett-Packard Zentro Hewlett-Packard	6038A	1 1 7 0 1	500001374	1
49. Po	Multi-meter (Hand) Multi-meter (Hand) Multi-meter (digital Power supply Power supply Power supply	Hewlett-Packard Zentro	6038A 1108-32 1108-32	1701 1802	300001383	İ

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No.	Instrument/	Manufacturer	Туре	Serial-No.	Internal ID	
	Ancillary				No.	
50.	Power supply	Zentro	LA 2x30/5GB2	2012	300001275	
51. 52.	Power supply	Systron	M5P 40/15A ESH3-Z5	828233 828576/020	300001291 300001210	
	V-network AC	Rohde & Schwarz			300001210	
53. 54.	Oscilloscope Power meter	Hewlett-Packard	54502A 436A	2934A01917 2101A12378	300001374	
	Power meter Power meter	Hewlett-Packard	436A 436A		300001136	
55. 56.	Precision – frequency –	Hewlett-Packard Hewlett-Packard	70310A	2031U01461 2736A00707	300001103	
	reference		70310A			
57.	Radio communication analyzer	Rohde & Schwarz	CMTA 54	894043/010	300001175	
58.	Radio communication analyzer	Rohde & Schwarz	CMTA 84	894199/012	300001176	
59.	Radio communication analyzer	Rohde & Schwarz	CMTA 84	894581/013	300001355	
60.	Signal generator	Hewlett-Packard	8111A	2215G00867	300001117	
61.	Signal generator	Rohde & Schwarz	SMPC	882416/019	300001162	
62.	Function signal	Rohde & Schwarz	AFGU	862490/032	300001201	
	generator					
63.	Function signal generator	Rohde & Schwarz	APN-04	894326/014	300001184	
64.	Signal generator 0.01- 1280 MHz	Hewlett-Packard	8662A	2224A01012	300001110	
65.	Signal generator 0.01- 1280 MHz	Hewlett-Packard	8662A	2232A01038	300001264	
66.	Signal generator 0.1- 2000 MHz	Rohde & Schwarz	SMH	864219/033	300001410	
67.	Signal generator 0.1- 2000 MHz	Rohde & Schwarz	SMH	883909/010	300001183	
68.	Signal generator 0.1- 2060 MHz	Hewlett-Packard	8657A	2838U00736	300001009	
69.	Signal generator 0.1- 4200 MHz	Hewlett-Packard	8665A	2833A00109	300001177	
70.	Signal generator 0.1- 4200 MHz	Hewlett-Packard	8665A	2833A00112	300001373	
71.	Signal generator 0.1- 4320 MHz	Rohde & Schwarz	SMHU	2790575	300001404	
72.	Signal generator 0.1- 4320 MHz	Rohde & Schwarz	SMHU	894055/005	300001190	
73.	Signal generator DC- 600 KHz	Hewlett-Packard	8904A	2822A01213	300001157	
74.	Signal generator DC- 600 KHz	Hewlett-Packard	8904A	2822A01214	300001158	
75.	Signal generator DC- 600 KHz	Hewlett-Packard	8904A	2822A01203	300001367	
76.	Function signal generator	Rohde & Schwarz	APN 04	2273637	300001395	
77.	Signal generator NF	Rohde & Schwarz	SPN	880139/068	300001142	
78.	Spectrum Analyzer	Rohde & Schwarz	FSiQ26	835111/0004	300002678	
79.	Spectrum analyzer	Hewlett-Packard	71210A (70000)	2731A02347	300000321	
80.	Spectrum analyzer	Rohde & Schwarz	FSMS	826067/004	300001223	
81.	Spectrum analyzer 2	Hewlett-Packard	85660B	3138A07614	300001207	
82.	Spectrum analyzer 3	Hewlett-Packard	8566A	1925A00257	300001098	
83.	Spectrum analyzer Display	Hewlett-Packard	70206A	2840A01553	300002017	
84.	Spectrum analyzer Display 2	Hewlett-Packard	85662A	3144A20627	300001208	
85.	Spectrum analyzer Display 3	Hewlett-Packard	85662	1925A00860	300002306	
86.	Isolating transformer	Erfi	913501		300001205	
87.	Isolating transformer	Erfi	MPL	91350	300001155	
88.	Isolating transformer	Erfi	MPL	91350	300001151	
89.	Isolating transformer	Erfi	6210		300001179	
90.	Isolating transformer	Grundig	RT5A	8781	300001277	
91.	Isolating transformer	Grundig	RT5A	9242	300001263	
92.	Amplifier	Hewlett-Packard	8447D	2648A04780	300001360	

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No.	Instrument/ Ancillary	Manufacturer	Type	Serial-No.	Internal ID No.		
93.	Amplifier	EMV	25W1000	12948	300001440		
94.	Amplifier 5W	Amplifier Research	5W1000	9725	300001592		
	Laboratory Bluetooth						
95.	Power splitter	Inmet Corp.	1499382		300002841		
96.	Power sensor	Rohde & Schwarz	NRV-Z1	833894/011	300002681-		
					0010		
97.	Signal generator	Rohde & Schwarz	SMIQ03	836206/0092	300002680		
98.	Bluetooth RF-test system	Rohde & Schwarz	TS8960		300002681- 0000		
99.	Signal generator	Rohde & Schwarz	SMIQ03	835541/055	300002681- 0001		
100.	Signal generator	Rohde & Schwarz	SMIQ03	835541/056	300002681- 0002		
101.	Signal generator	Rohde & Schwarz	SMP02	835133/011	300002681- 0003		
102.	Power meter	Rohde & Schwarz	NRVD	835430/044	300002681- 0004		
103.	Spectrum - analyzer	Rohde & Schwarz	FSIQ	835540/018	300002681- 0005		
104.	Switch unit	Rohde & Schwarz	SSCU		300002681- 0006		
105.	Attenuator-step	Rohde & Schwarz	RSP	834500/010	300002681- 0007		
106.	Frequency normal	Rohde & Schwarz	Rubidium		300002681- 0009		
107.	Power sensor	Rohde & Schwarz	NRV-Z1	833894/012	300002681- 0013		
					0013		
	Conducted emission	on on AC line Roo	om 006			<u> </u>	
108.	Measurement receiver	Rohde & Schwarz	ESH3	881515/002	300002490	Γ	
109.	Measurement receiver	Rohde & Schwarz	ESVP	881487/021	300002491		
110.	Measurement receiver	Rohde & Schwarz	ESH3	890174/002	300000296		
111.	V-network AC	Rohde & Schwarz	ESH3 Z5	892475/017	300002209		
112.	V-network AC	Rohde & Schwarz	ESH3-Z5	892239/020	300002506		
113.	Software	Rohde & Schwarz	ESK-1				
114.	DC power supply	Hewlett-Packard	6032A	2743A02600	300001498		
115.	V-network AC	Rohde & Schwarz	ESH3-Z5	861189/014	300001458		
116.	V-network DC	Rohde & Schwarz	ESH3-Z6	893689/012	300001504		
117.	V-network DC	Rohde & Schwarz	ESH3-Z6	861406/005	300001518		
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5 Photographs

Radiated test setup



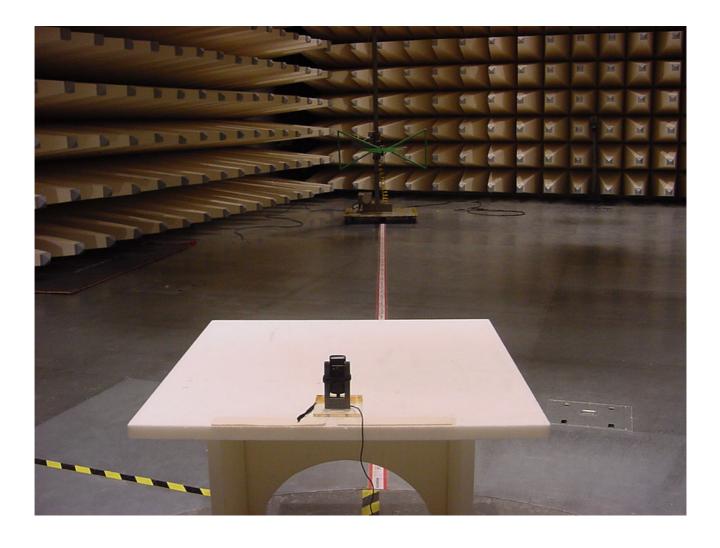


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AC-conducted measurement



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external photographs



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internal photographs



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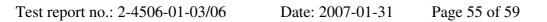


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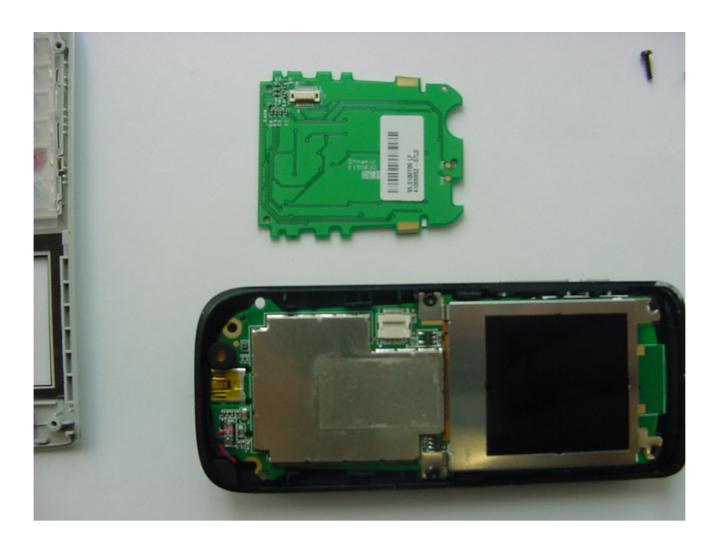


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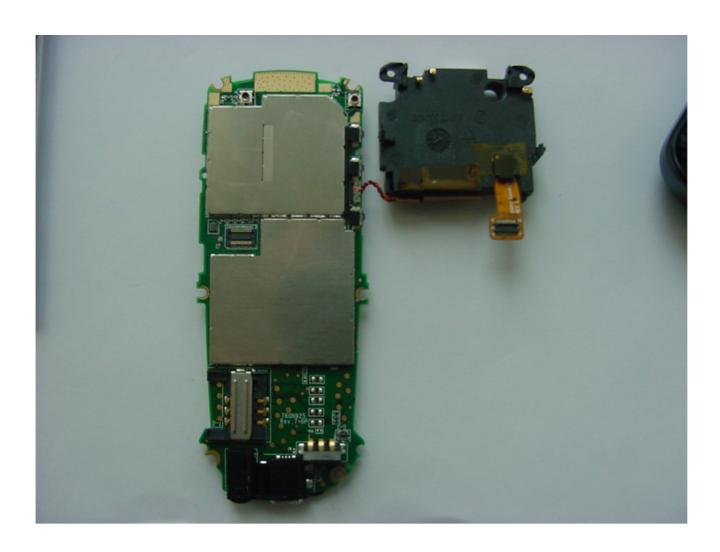


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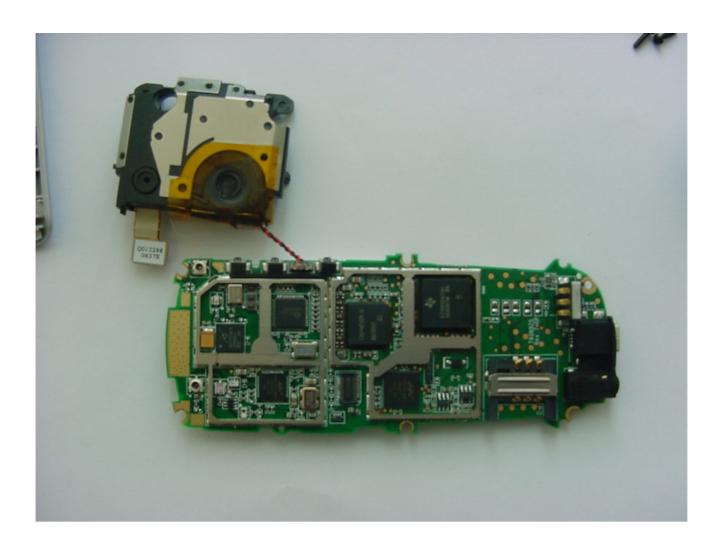
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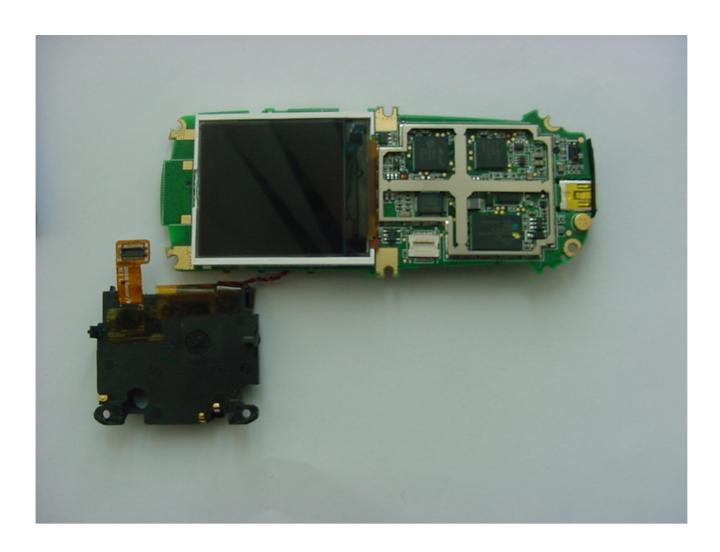
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