

Radio Satellite Communication

Untertürkheimer Straße 6-10 . D-66117 Saarbrücken Telefon: +49 (0)681 598-9100 Telefax: -9075

RSC14

issue test report consist of 67 Pages

Page 1 (67)

Recognized by the Federal Communications Commission

Anechoic chamber registration no.: 90462 (FCC) Anechoic chamber registration no.: 3463 (IC) TCB ID: DE 0001



Accredited by the
German Accreditation Council
DAR-Registration Number
TTI-P-G 166/98
Deutscher
Akkreditierungs
Rat

Independent ETSI compliance test house



Accredited BluetoothTM Test Facility (BQTF)

Test report no.: 2-3409-01-01/03

FCC Part 24/15 AAB-1021021-BV

FCC ID: PY7A1021021 Canada IC: 4170B-A1021021

CETECOM – ICT Services GmbH

Untertürkheimerstr. 6-10 66117 Saarbrücken, Germany

Telephone: +49 (0) 681 / 598-0 Fax: +49 (0) 681 / 598-9075



Table of Contents

- 1 General information
- 1.1 Notes
- 1.2 Testing laboratory
- 1.3 Details of applicant
- 1.4 Application details
- 1.5 Test item
- 1.6 Test specifications
- 2 Technical test
- 2.1 Summary of test results
- 2.2 Test report



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 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.

1.2 Testing laboratory

CETECOM ICT Services GmbH Untertürkheimer Straße 6 - 10

66117 Saarbrücken

Germany

Telefone : + 49 681 598 - 9100

Telefax : +49 681 598 - 9075 E-mail : info@ict.cetecom.de Internet : www.cetecom-ict.de

Accredited testing laboratory

The test laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025.

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

Listed by: Federal Communications Commission (FCC)

Identification/Registration No: 90462

Accredited Bluetooth[™] Test Facility (BQTF)

BLUETOOTH[™] is a trademark owned by Bluetooth SIG, Inc. and licensed to CETECOM

1.3 Details of applicant

Name : Sony Ericsson Mobile Communication AB

Street : Nya Vattentornet

City : 22188 Lund Country : Sweden

Telephone: +46 46 193559 Telefax: +46 46 193295 Contact: Håkan Sjöberg

e-mail : hakan.sjoberg@sonyericsson.com



1.3 Application details

Date of receipt of application : 2003-10-06 Date of receipt of test item : 2003-10-06

Date of test : 2003-10-13 to 2003-10-15

1.4 Test item

Type of equipment : Triple Band GSM/PCS Mobile Phone (GSM900/1800/PCS 1900)

Type designation : AAB-1021021-BV

Manufacturer : - applicant -

Street :

City

Country

Serial numbers : IMEI : 0004601014333020

Additional information: :

Frequency : 1850.2 – 1909.8 MHz

Type of modulation : 300KGXW
Number of channels : 300 (PCS1900)
Antenna : Integral antenna

Power supply : 3,8V DC Li-ion Battery

Output power PCS 1900 : cond : 30.2 dBm Peak , ERP: 28.6 dBm (Burst);

EIRP: 30.7 dBm (Burst)

Type of equipment : Temperature range : $-30^{\circ}\text{C} - +60^{\circ}\text{C}$

FCC – ID : PY7A1021021 IC : 4170B-A1021021

Hardware : FP2.3.3 Software : P2G

1.6 Test specifications: FCC Part 24

FCC Part 15



2 Technical test

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

All measurements in this report are done in GSM mode. 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).

Remarks:

For AC-conducted measurements we used an standard charger from Sony-Ericsson.

Test setup:

Radiated measurements: Mobile with charger Conducted measurements: Mobile with charger

Part15: Mobile with charger

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

FINAL VERDICT: PASS

Technical responsibility for area of testing:

2003-10-23 RSC 8414 Ames H.

Date Section Name Signature

Technical responsibility for area of testing:

2003-10-23 RSC8412 Hausknecht D.

Date Section Name Signature



2.2 Test report

TEST REPORT

Test report no.: 2-3409-01-01/03

PICTURES



52

Test report no..: 2-3409-01-01/03 Issue Date: 2003-10-16 Page 7 (67) TEST REPORT REFERENCE LIST OF MEASUREMENTS PARAMETER TO BE MEASURED **PAGE Part PCS 1900** POWER OUTPUT SUBCLAUSE § 24.232 8 FREQUENCY STABILITY SUBCLAUSE § 24.235 10 AFC FREQ ERROR vs. VOLTAGE 11 AFC FREQ ERROR vs. TEMPERATURE 11 **EMISSIONS LIMITS** 13 **§24.238 CONDUCTED SPURIOUS EMISSIONS** 27 BLOCK EDGE COMPLIANCE FOR BLOCK A, B, C, D, E AND F **36 OCCUPIED BANDWIDTH §2.989 40 CONDUCTED EMISSIONS** § 15.107/207 47 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS **50**



POWER OUTPUT

SUBCLAUSE § 24.232

Summary:

This paragraph contains both average, peak output powers 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 FSIQ 26 (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

Power Measurements:

Conducted:

Frequency (MHz)	Power Step	Peak Output Power (dBm)	Average Output Power (dBm)
1850.2	0	30.00	29.90
1880.0	0	30.20	30.10
1909.8	0	29.50	29.40
Measuremen	t uncertainty	±0.:	5 dB



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."

Method of Measurement:

- 1. In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference center of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.
- 2. A "reference path loss" is established as Pin + 2.1 Pr.
- 3. The EUT is substituted for the dipole at the reference centre of the chamber. The EUT is put into CW test mode and a scan is performed to obtain the radiation pattern.
- 4. From the radiation pattern, the co-ordinates where the maximum antenna gain occurs is identified.
- 5. The EUT is then put into pulse mode at its maximum power level (Power Step 0).
- 6. "Gated mode" power measurements are performed with the receiving antenna placed at the co-ordinates determined in Step 3 to determine the output power as defined in FCC Rule 24.232 (b) and (c). The "reference path loss" from Step 1 is added to this result.
- 7. This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.1 dBi) and known input power (Pin).
- 8. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.1dBi.

Limits:

Power Step	Burst Average EIRP (dBm)
0	<33

Power Measurements (Radiated)

Frequency	Power Step	BURST AVERAGE (dBm)		MODULATION AVERAGE (dBm)	
(MHz)		EIRP	ERP	EIRP	ERP
1850.2	0	30.2	28.1	21.2	19.1
1880.0	0	30.7	28.6	21.7	19.6
1909.8	0	30.0	27.9	21.0	18.9
Measurement unce	Measurement uncertainty		±3 dB		



FREQUENCY STABILITY

SUBCLAUSE § 24.235

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 3.6 Volts, connected to the CMU 200 and in a simulated call on channel 661 (centre 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 nominal 3.8 Volts. Vary supply voltage from minimum
- 3.3 Volts to maximum 4.4 Volts, in 12 steps re-measuring carrier frequency at each voltage. Pause at 3.8 V dc Volts 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 3.8 Volts, 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. This transceiver is specified to operate with an input voltage of between 3.3 V dc and 4.4 V dc, with a nominal voltage of 3.8 V dc.



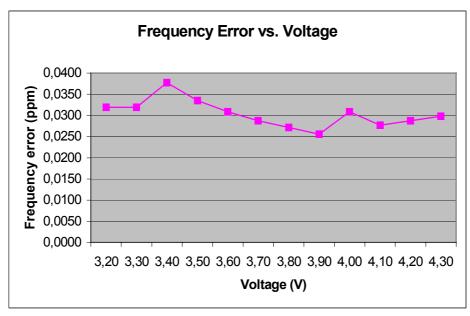
AFC FREQ ERROR vs. VOLTAGE

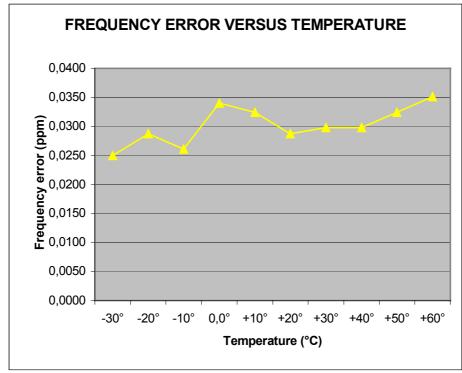
Voltage	Frequency Error	Frequency Error	Frequency Error
(V)	(Hz)	(%)	(ppm)
3.3	60	0,00000319	0,0319
3.4	60	0,00000319	0,0319
3.5	71	0,00000378	0,0378
3.6	63	0,00000335	0,0335
3.7	58	0,00000309	0,0309
3.8	54	0,00000287	0,0287
3.9	51	0,00000271	0,0271
4.0	48	0,00000255	0,0255
4.1	58	0,00000309	0,0309
4.2	52	0,00000277	0,0277
4.3	54	0,00000287	0,0287
4.4	56	0,00000298	0,0298

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error	Frequency Error	Frequency Error
(°C)	(Hz)	(%)	(ppm)
-30	47	0,00000053	0,0053
-20	54	0,00000048	0,0048
-10	49	0,00000059	0,0059
±0.0	64	0,00000080	0,0080
+10	61	0,00000117	0,0117
+20	54	0,00000138	0,0138
+30	56	0,00000160	0,0160
+40	56	0,00000170	0,0170
+50	61	0,00000191	0,0191
+60	66	0,00000149	0,0149









EMISSIONS LIMITS

§24.238

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 – 1992 requirements and is recognised 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.



Measurement Results:

Radiated emissions measurements were made only at the upper, center, and lower carrier frequencies of the USPCS band (1850.2 MHz, 1879.8 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.

RESULTS OF OPEN FIELD RADIATED TEST FOR FCC-24:

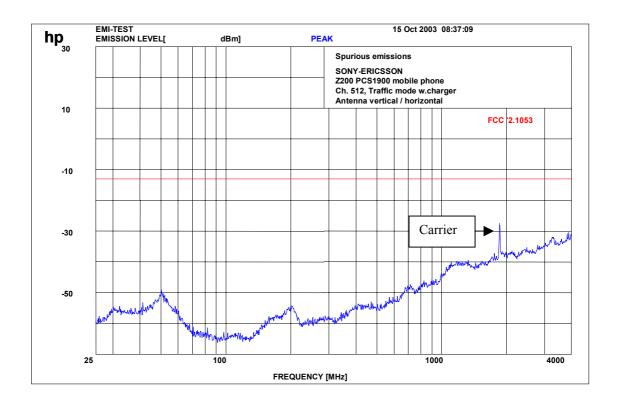
The final open field radiated levels are presented on the next pages.

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. RESULTS OF OPEN FIELD RADIATED TEST FOR FCC-24:

	EMIS	SSION LIMITAT	IONS	
f (MHz)	amplitude of emission (dBm)	limit max. allowed emission power (dBm)	actual attenuation below frequency of operation (dBc)	results
,	1	CH 512	, , , , , , , , , , , , , , , , , , ,	
1850.2	30.70	-13.0 (43.70 dBc)		carrier
no traceabi	e peak found			
		CH 661		
1880.0 3760.0	30.78	-13.0 (43.78 dBc)	46.98	carrier complies
		CH 810		
1909.8	30.91	-13.0 (43.91 dBc)		carrier
no traceabl	e peak found			
Measurement (uncertainty		± 0.5dB	



Channel 512 (up to 4 GHz)

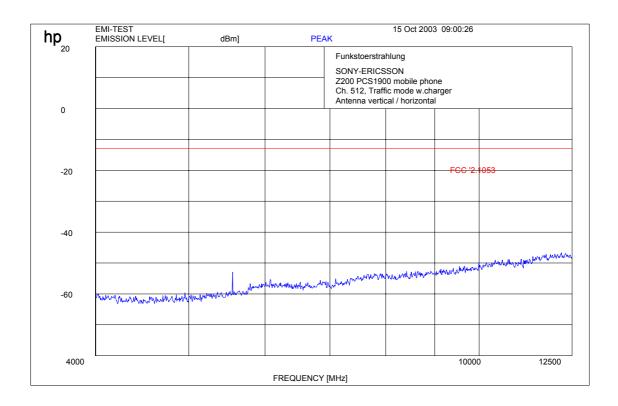


f < 1 GHz : RBW/VBW: 100 kHz $f \ge 1 \text{ GHz} : RBW/VBW 1 \text{ MHz}$

Carrier suppressed with a rejection filter



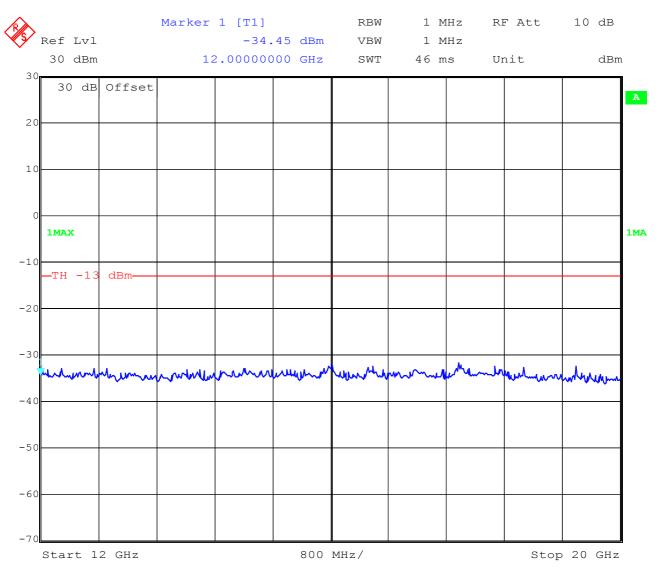
Channel 512 (up to 12 GHz)



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



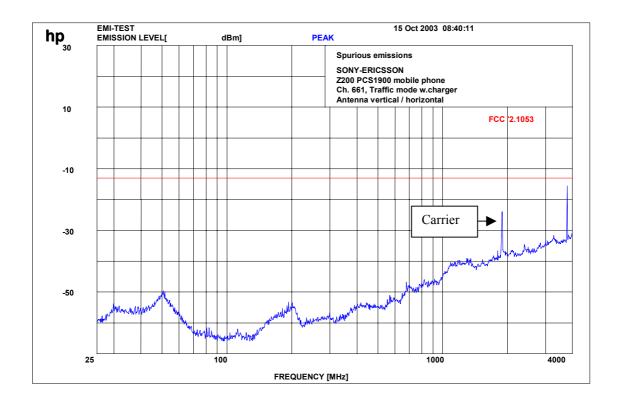
Channel 512 (up to 20 GHz)



Date: 14.OCT.2003 14:59:29



Channel 661 (up to 4 GHz)

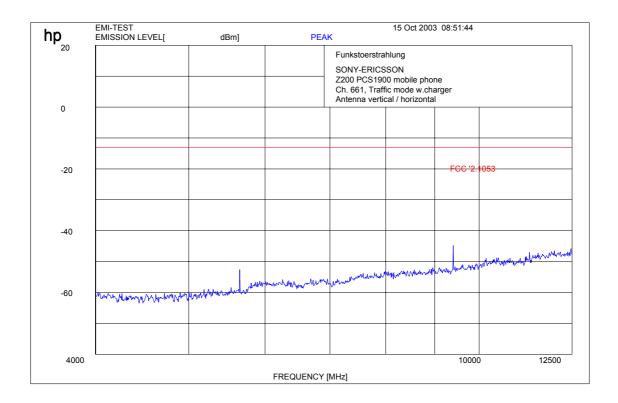


f < 1 GHz: RBW/VBW: 100 kHz $f \ge 1 \text{ GHz}: RBW/VBW 1 \text{ MHz}$

Carrier suppressed with a rejection filter



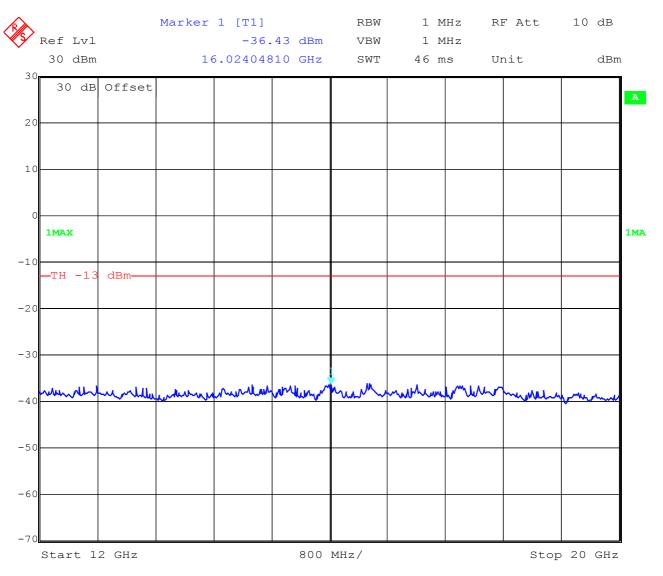
Channel 661 (up to 12 GHz)



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



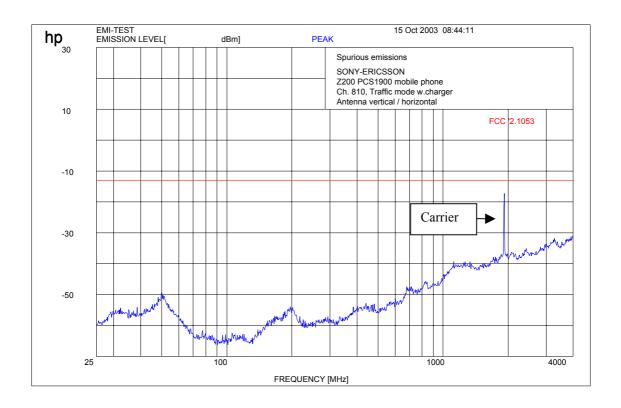
Channel 661 (up to 20 GHz)



Date: 14.OCT.2003 15:00:16



Channel 810 up to 4 GHz



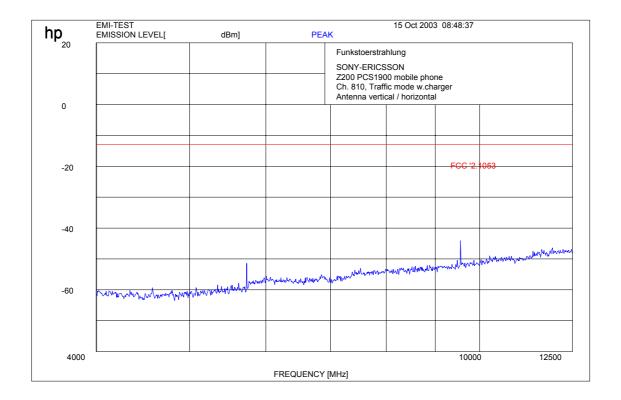
f < 1 GHz: RBW/VBW: 100 kHz $f \ge 1 \text{ GHz}: RBW/VBW: 1 \text{ MHz}$

Carrier suppressed with a rejection filter



Test report no..: 2-3409-01-01/03 Issue Date: 2003-10-16 Page 22 (67)

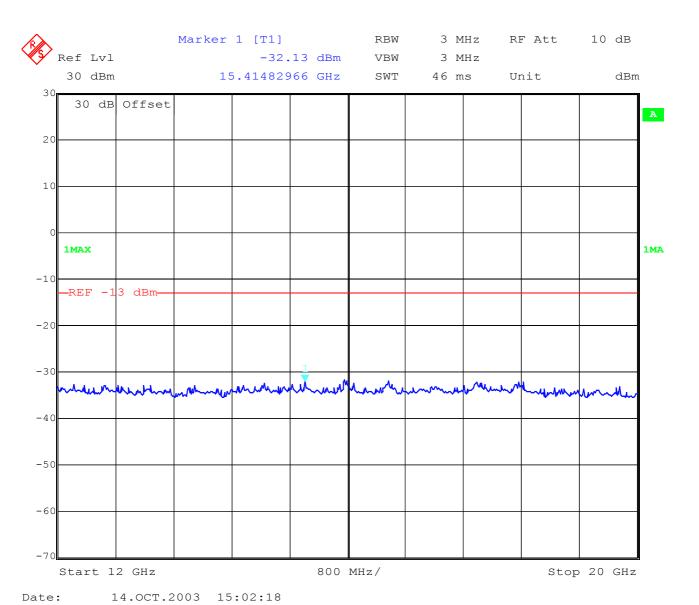
Channel 810 up to 12 GHz



f < 1 GHz: RBW/VBW: 100 kHz **f≥1GHz: RBW/VBW 1 MHz**



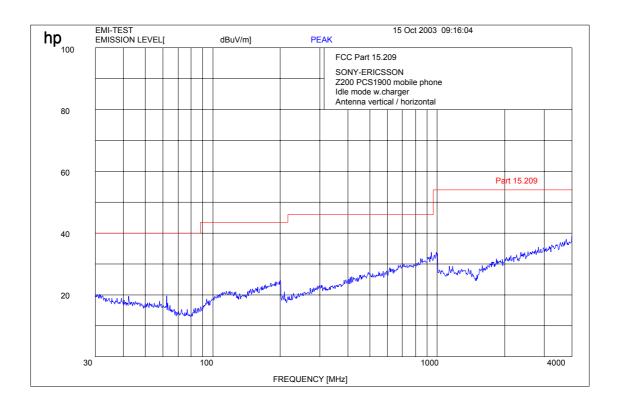
Channel 810 (up to 20 GHz)



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED (for reference numbers see test equipment listing) 64



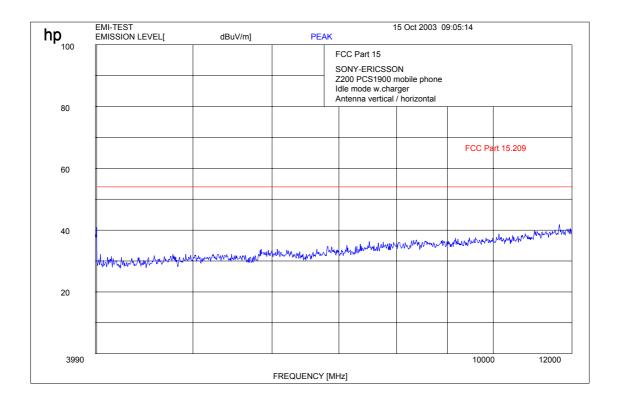
Idle Mode up to 4 GHz



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



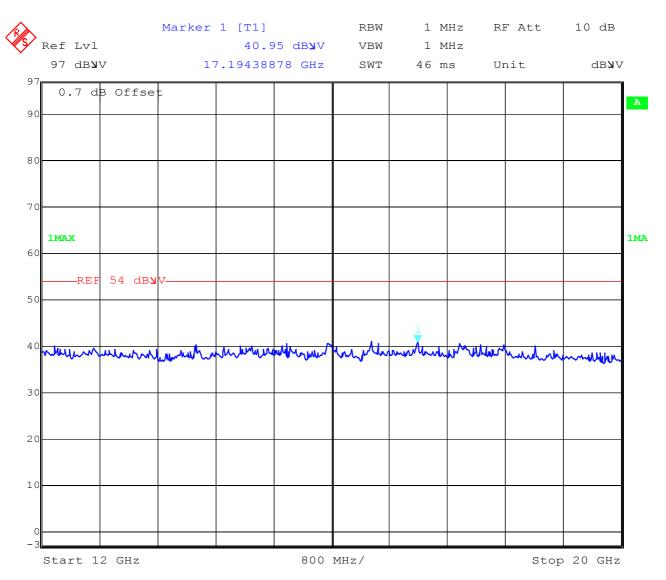
Idle Mode up to 12 GHz



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



Idle Mode up to 20 GHz



Date: 14.OCT.2003 15:12:29



Conducted Spurious Emissions

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:

Sec. 24.238 Emission Limits.

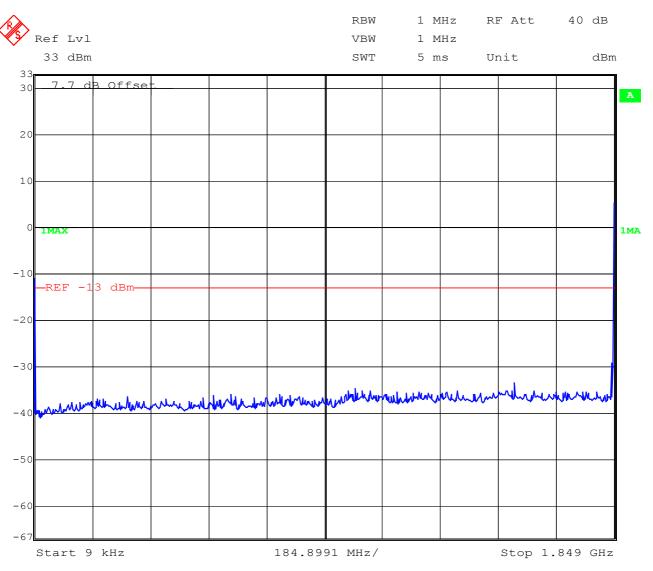
(a) On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

	EN	IISSION LIMITATI	IONS	
f (MHz)	amplitude of emission (dBm)	limit max. allowed emission power (dBm) CH 512	actual attenuation below frequency of operation (dBc)	results
1850.2	30.00	-13.0		carrier
1849.0	-13.38	(43.00 dBc)	43.38	complies
		CH 661		
1880.0	30.20	-13.0		carrier
1871.5	-30.38	(43.20 dBc)	60.58	complies
6565.1	-28.93	_	59.13	complies
<u> </u>		CH 810		
1909.8	29.50	-13.0		carrier
1905.0	-27.57	(42.50 dBc)	57.07	complies
1910.0	-13.53		43.03	complies
Measurement 1	incertainty		± 0.5dB	



Measurements:

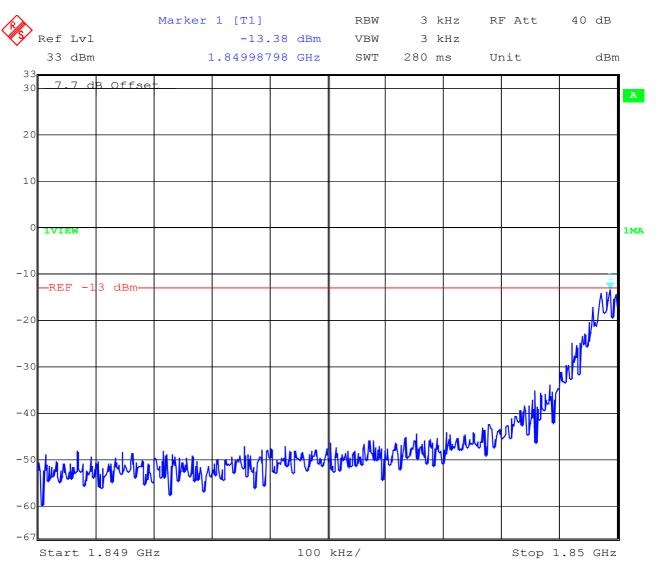
Channel: 512



Date: 15.OCT.2003 06:57:32



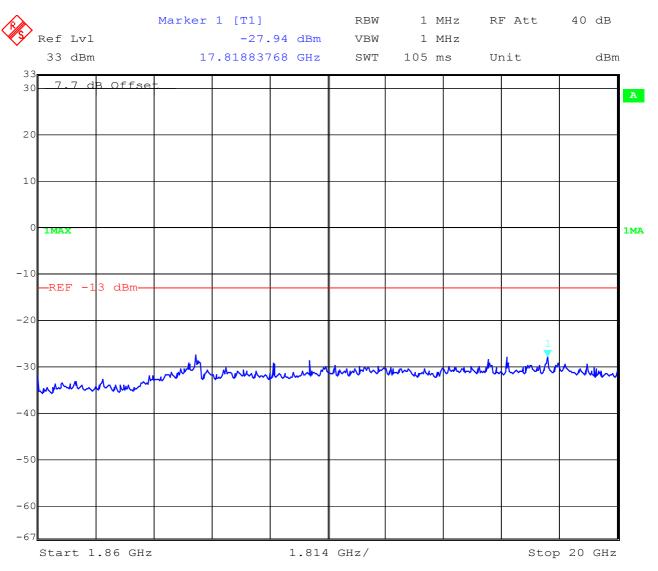
Channel 512



Date: 15.OCT.2003 06:58:30



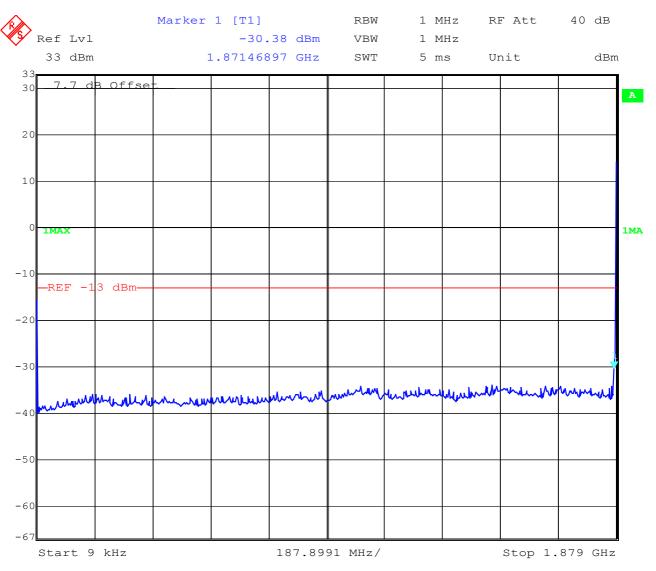
Channel 512



Date: 15.OCT.2003 06:59:45



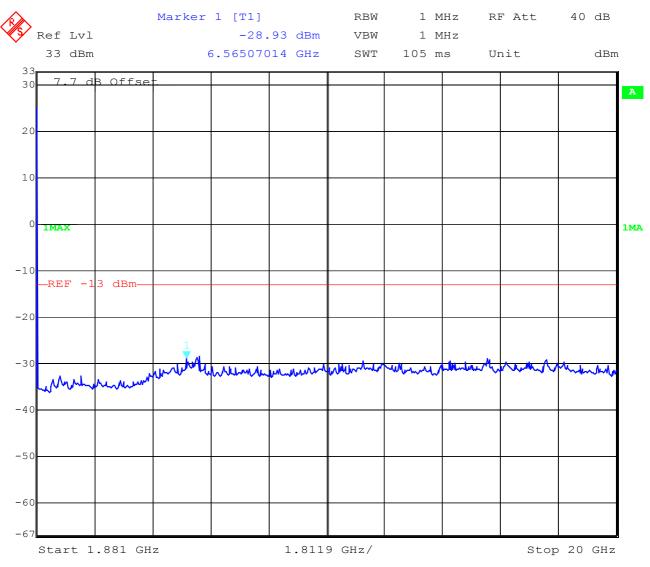
Channel 661



Date: 15.OCT.2003 07:01:19



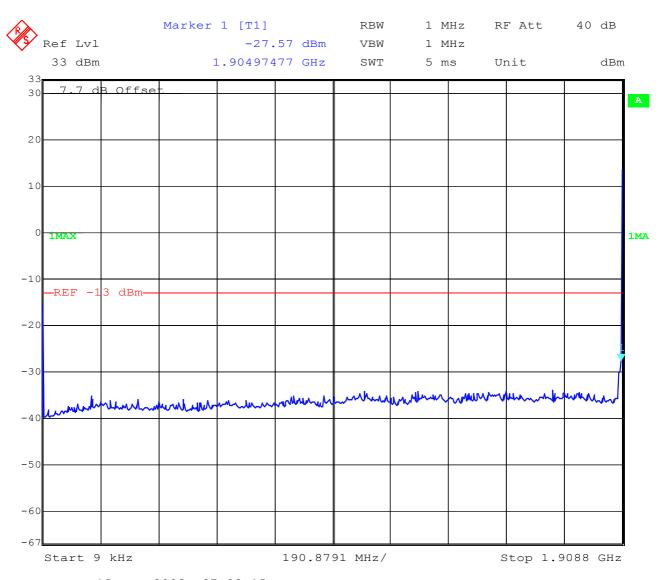
Channel 661



Date: 15.OCT.2003 07:00:39



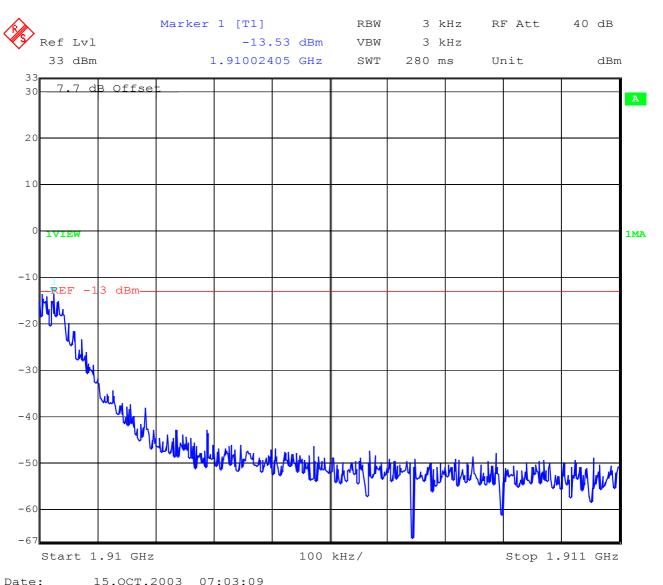
Channel 810



Date: 15.OCT.2003 07:02:15



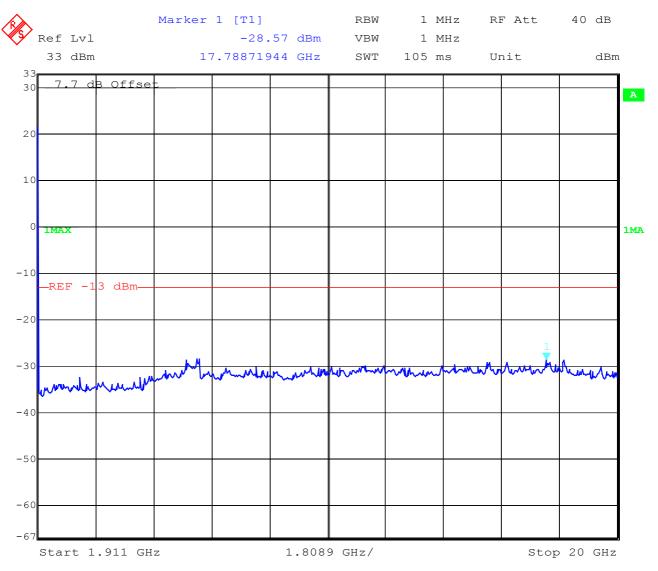
Channel 810



Date: 15.0CT.2003 07:03:09



Channel 810



Date: 15.OCT.2003 07:03:50



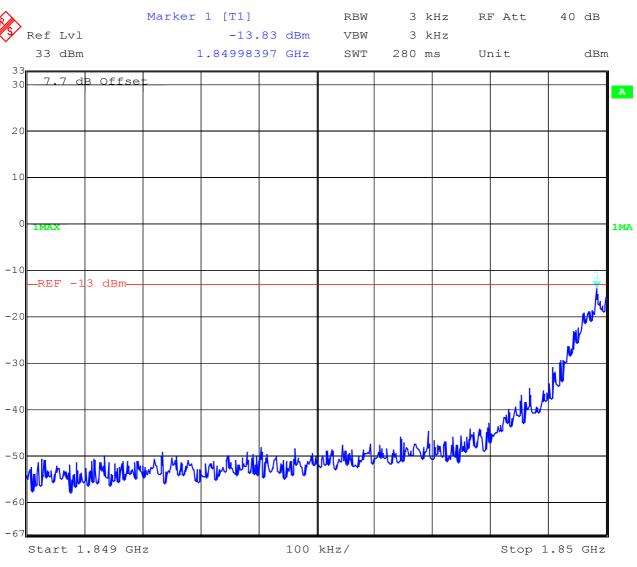
BLOCK EDGE COMPLIANCE FOR BLOCK A AND C

Measurement Limit:

Sec. 24.238 Emission Limits.

(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.

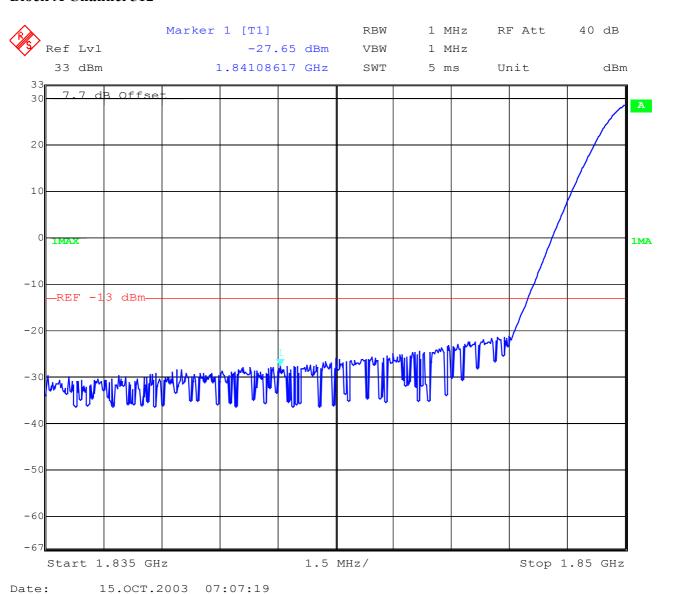
Measurements: Block A Channel 512



Date: 15.OCT.2003 07:06:10

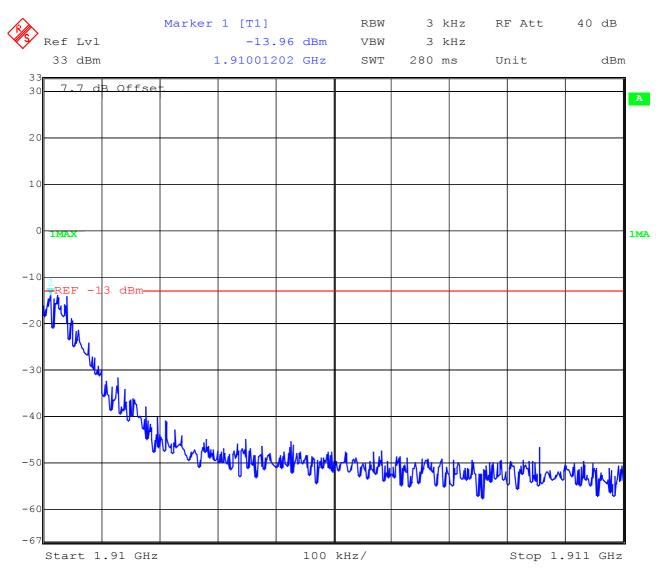


Block A Channel 512





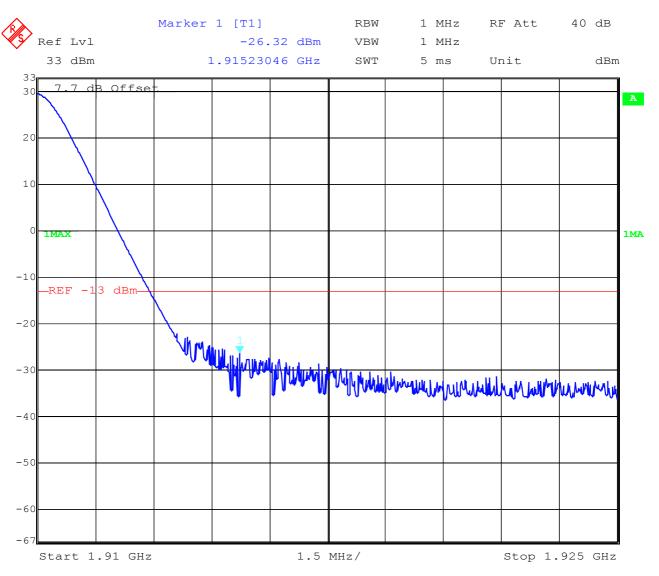
Block C Channel 810



Date: 15.OCT.2003 07:08:56



Block C Channel 810



Date: 15.0CT.2003 07:08:30



OCCUPIED BANDWIDTH

§2.989

Occupied Bandwidth Results

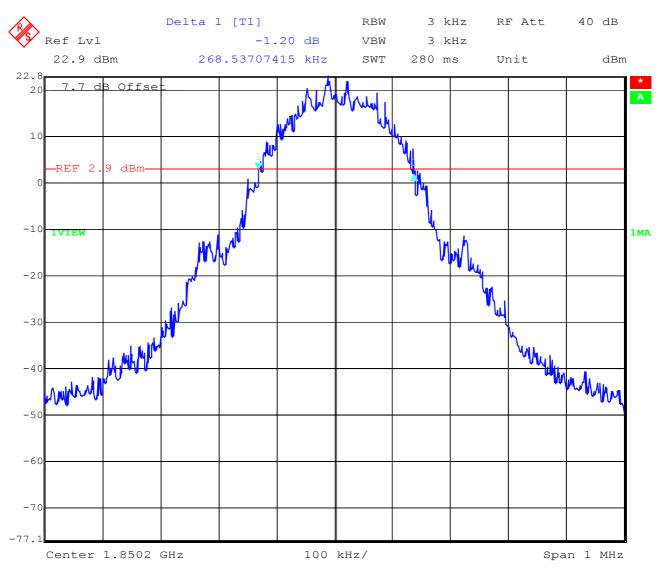
Similar to conducted emissions, occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the USPCS frequency band. Table 8.2 below lists the measured 99% power and -26dBC occupied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

Frequency	99% Occupied Bandwidth	-26 dBc Bandwidth
1850.2 MHz	268.537	310.621
1880.0 MHz	270.541	316.633
1909.8 MHz	276.553	322.645

Part 24.238 (a) requires a measurement bandwidth of at least 1% of the occupied bandwidth. For ca. 281 kHz, this equates to a resolution bandwidth of at least 3.0 kHz. For this testing, a resolution bandwidth 3.0 kHz was used.



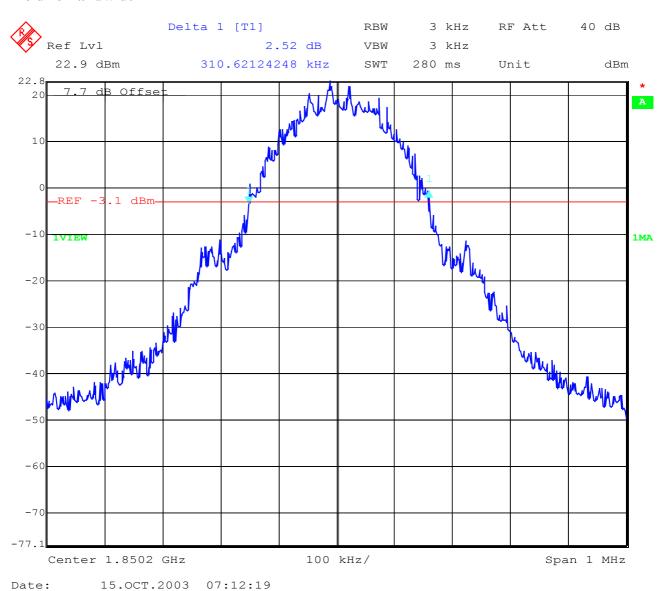
Channel 512 99% Occupied Bandwidth



Date: 15.OCT.2003 07:11:23

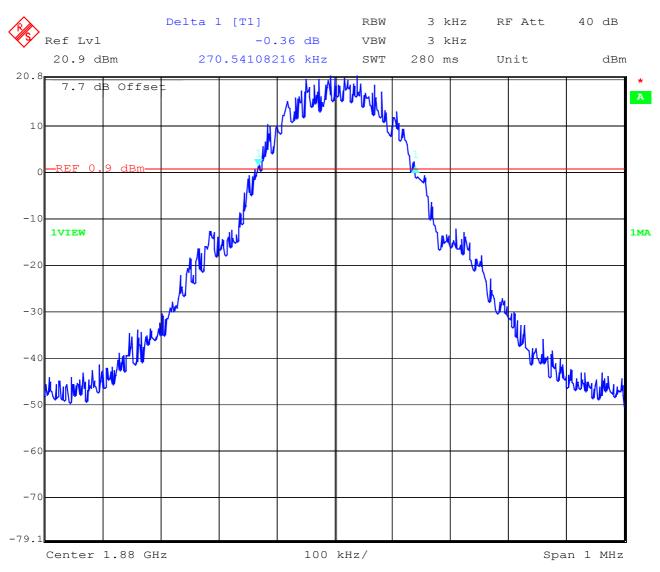


Channel 512 -26 dBc Bandwidth





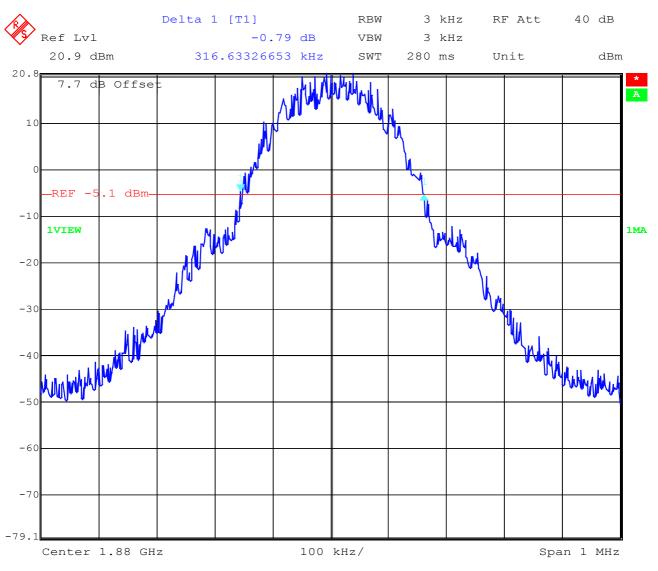
Channel 661 99% Occupied Bandwidth



Date: 15.OCT.2003 07:14:03



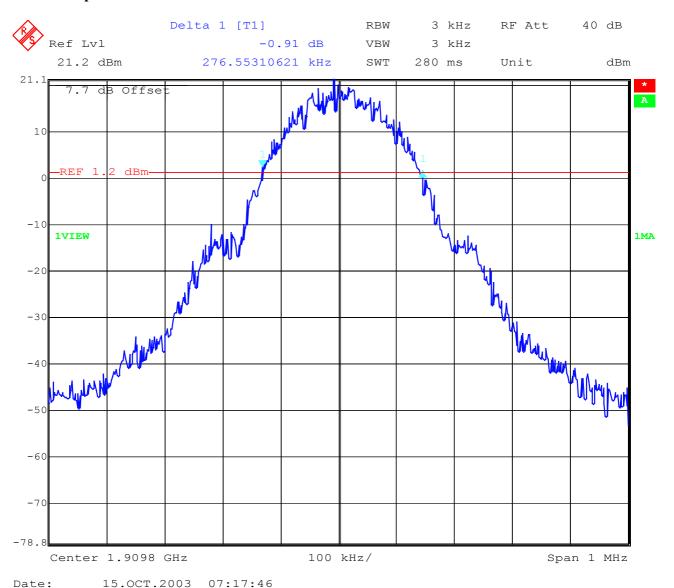
Channel 661 -26 dBc Bandwidth



Date: 15.OCT.2003 07:14:32

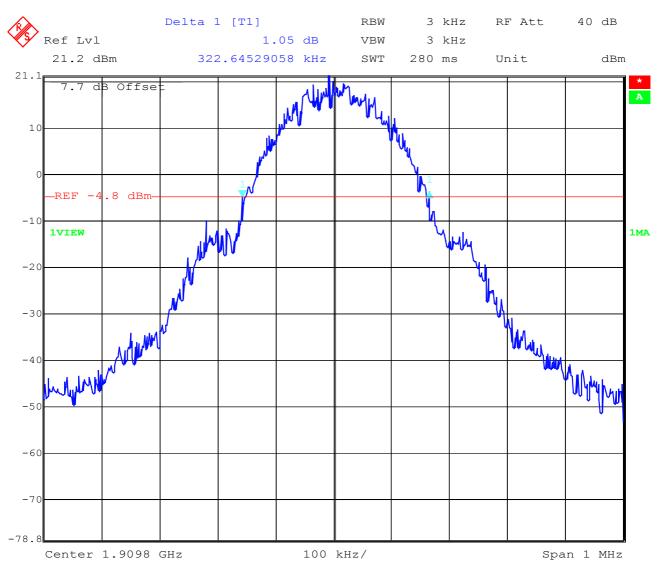


Channel 810 99% Occupied Bandwidth





Channel 810 -26 dBc Bandwidth



Date: 15.OCT.2003 07:18:24



CONDUCTED EMISSIONS

§ 15.107/207

With charger, idle mode

CISPR 22

EUT: AAB-1021021-BV with Charger

Manufacturer: Sony-Ericsson

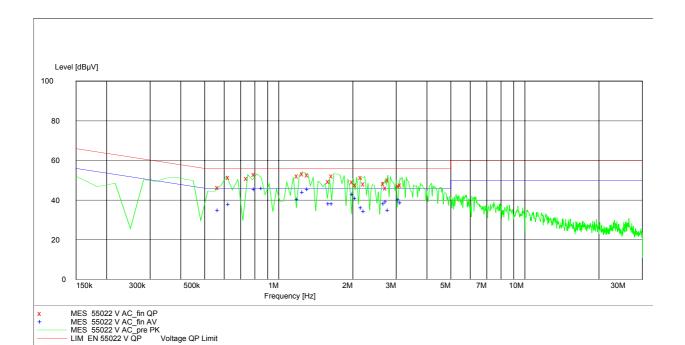
Operating Condition: traffic and idle mode, max hold

Test Site: Room 006

Operator: Ames

Test Specification: EN 55022

Comment: pass





MEASUREMENT RESULT: "55022 V AC_fin QP"

15.10.03 08:02 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.577500 0.637500 0.757500 0.810000 1.215000 1.275000 1.335000 1.627500 1.680000 2.032500 2.092500 2.205000 2.265000 2.730000 2.782500 2.842500	46.40 51.40 50.90 53.10 52.10 53.20 52.60 49.40 52.30 49.10 47.80 51.40 48.30 48.40 46.10 50.30	10.4 10.4 10.5 10.3 10.3 10.3 10.4 10.4 10.4 10.4 10.4 10.4	5665665555555555555555566655666655666666	9.6 4.6 5.1 2.9 3.9 2.8 3.4 6.6 3.7 6.9 8.2 4.6 7.7 7.6 9.9 5.7	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	GND FLO FLO FLO FLO FLO GND GND GND GND GND FLO
3.135000 3.187500	47.20 47.60	10.5 10.5	56 56	8.8 8.4	L1 L1	GND GND

MEASUREMENT RESULT: "55022 V AC_fin AV"

15.10.03 08:02						
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dΒμV	dB	dΒμV	dB		
0.577500	34.70	10.4	46	11.3	L1	GND
0.637500	37.90	10.4	46	8.1	L1	GND
0.810000	45.50	10.5	46	0.5	L1	FLO
0.870000	45.90	10.5	46	0.1	L1	FLO
1.215000	40.30	10.3	46	5.7	L1	FLO
1.275000	44.00	10.3	46	2.0	L1	FLO
1.335000	45.50	10.3	46	0.5	L1	FLO
1.627500	38.00	10.3	46	8.0	L1	FLO
1.680000	38.10	10.4	46	7.9	L1	FLO
2.032500	42.80	10.4	46	3.2	L1	GND
2.085000	41.00	10.4	46	5.0	L1	GND
2.205000	36.20	10.4	46	9.8	L1	GND
2.265000	34.40	10.4	46	11.6	L1	GND
2.730000	38.20	10.4	46	7.8	L1	GND
2.782500	39.20	10.4	46	6.8	L1	GND
2.842500	34.80	10.4	46	11.2	N	FLO
3.135000	40.20	10.5	46	5.8	L1	GND
3.187500	38.60	10.5	46	7.4	L1	GND

Limit § 15.207

Frequency of Emission (MHz)	Conducted Limit (dBuV)			
	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.



FCC Rule 47

Part 15 Magnetics

EUT: AAB-1021021-BV with Charger

Manufacturer: Sony-Ericsson

Operating Condition: Traffic and Idle Mode/Channel 661

Test Site: Cetecom, Room 6

Operator: Ames

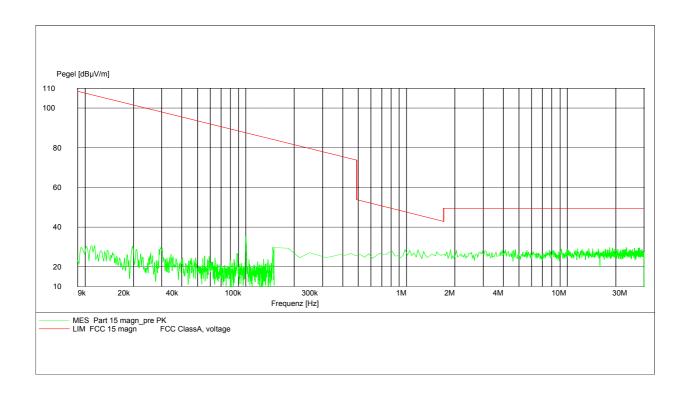
Test Specification: FCC Part 15 Magnetics, max hold

Comment: pass

SCAN TABLE: "FCC 15 magn"

Short Description: Magnetic 0.009 - 30 MHz

Unit: dBµV/m





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 1925A00257 03 Oscilloscope 7633 Tektronix 230054 04 Radio Communication CMTA 54 Rohde & Schwarz 894 043/010 05 System Power Supply 6038 A Hewlett-Packard 22848A07027 06 Signal Generator 8662 A Hewlett-Packard 2215G00867 07 Signal Generator AFGU Rohde & Schwarz 862 480/032 09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-Matrix PSU Rohde & Schwarz 893 285/020 12 Power-Meter 436 A Hewlett-Packard 2237A10156 14 Power-Sensor 8484 A Hewlett-Packard 2237A10156 15 Mo	1				
02 Analyzer Display 8566 A Hewlett-Packard 1925A00860 03 Oscilloscope 7633 Tektronix 230054 04 Radio Communication Analyzer CMTA 54 Rohde & Schwarz 894 043/010 05 System Power Supply 6038 A Hewlett-Packard 2248A07027 06 Signal Generator 8662 A Hewlett-Packard 2224A01012 08 Function Generator AFGU Rohde & Schwarz 862 480/032 09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-Matrix PSU Rohde & Schwarz 893 285/020 12 Power-Meter 436 A Hewlett-Packard 2237A10156 14 Power-Sensor 8484 A Hewlett-Packard 2237A10156 14 Power-Sensor 8482 A Hewlett-Packard 2237A10616 15 Modulation Meter 9008 Racal-Dana 264 16 Frequency	No	Instrument/Ancillary	Type	Manufacturer	Serial No.
03 Oscilloscope 7633 Tektronix 230054 04 Radio Communication Analyzer CMTA 54 Rohde & Schwarz 894 043/010 05 System Power Supply 6038 A Hewlett-Packard 2848A07027 06 Signal Generator 8662 A Hewlett-Packard 2215G00867 07 Signal Generator AFGU Rohde & Schwarz 862 480/032 09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-Matrix PSU Rohde & Schwarz 893 285/020 12 Power-Meter 436 A Hewlett-Packard 2237A10156 14 Power-Sensor 8482 A Hewlett-Packard 2237A00616 15 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber	01	Spectrum Analyzer	8566 A	Hewlett-Packard	1925A00257
04 Radio Communication 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 A662 A Hewlett-Packard 2224A01012 08 Function Generator AFGU Rohde & Schwarz 862 480/032 09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-Matrix PSU Rohde & Schwarz 893 285/020 12 Power-Meter 436 A Hewlett-Packard 2101A12378 13 Power-Sensor 8484 A Hewlett-Packard 2237A00616 14 Power-Sensor 8482 A Hewlett-Packard 2237A00616 15 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 2747A05306 17	02	Analyzer Display	8566 A	Hewlett-Packard	1925A00860
Analyzer 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 Function Generator AFGU Rohde & Schwarz 862 480/032 09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-Matrix PSU Rohde & Schwarz 893 285/020 12 Power-Meter 436 A Hewlett-Packard 2101A12378 13 Power-Sensor 8484 A Hewlett-Packard 2237A01616 14 Power-Sensor 8482 A Hewlett-Packard 2237A01616 15 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anachoic Chamber 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 2813A00768 22 Biconical Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged Horn 3115 Emco 3088 25 EMI-Testreceiver ESAI Rohde & Schwarz 863 180/13 26 EMI-Analyzer-Display ESAI-D Rohde & Schwarz 862 771/008 27 Biconical Antenna HK 116 Rohde & Schwarz 863 180/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 863 180/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 863 180/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 863 180/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 863 180/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 863 180/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 863 180/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 863 180/013 375 339/002 30 Highpass HM985955 FSY Microwave 001 Microwave 001 Amplifier 4747A05306 4747A05306 4747A05306 4747A05306 4747A05306 4747A05306 4747A05306 4747A05306 4747A05306 4747A	03	Oscilloscope	7633	Tektronix	230054
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 Function Generator AFGU Rohde & Schwarz 862 480/032 09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-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 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Ancehoic Chamber MWB 87400/002 18 Spectrum Analyzer	04	Radio Communication	CMTA 54	Rohde & Schwarz	894 043/010
06 Signal Generator 8111 A Hewlett-Packard 2215G00867 07 Signal Generator 8662 A Hewlett-Packard 2224A01012 08 Function Generator AFGU Rohde & Schwarz 862 480/032 09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-Matrix PSU Rohde & Schwarz 893 285/020 12 Power-Meter 436 A Hewlett-Packard 2207A00616 13 Power-Sensor 8484 A Hewlett-Packard 2237A00616 14 Power-Sensor 8482 A Hewlett-Packard 2237A00616 15 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber		Analyzer			
07 Signal Generator 8662 A Hewlett-Packard 2224A01012 08 Function Generator AFGU Rohde & Schwarz 862 480/032 09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-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 2237A10616 15 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber MWB 87400/002 18 Spectrum Analyzer 85660 B Hewlett-Packard 2747A05306 19 Analyzer Display 85650 A Hewlett-Packard 2816A16541 20 Quasi Peak Adapter <td>05</td> <td>System Power Supply</td> <td>6038 A</td> <td>Hewlett-Packard</td> <td>2848A07027</td>	05	System Power Supply	6038 A	Hewlett-Packard	2848A07027
08 Function Generator AFGU Rohde & Schwarz 862 480/032 09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-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 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber 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	06	Signal Generator	8111 A	Hewlett-Packard	2215G00867
09 Regulating Transformer MPL Erfi 91350 10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-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 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber 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 2831A00768 22 Biconical Antenna <td>07</td> <td>Signal Generator</td> <td>8662 A</td> <td>Hewlett-Packard</td> <td>2224A01012</td>	07	Signal Generator	8662 A	Hewlett-Packard	2224A01012
10 LISN NNLA 8120 Schwarzbeck 8120331 11 Relay-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 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber 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 281fA016541 21 RF-Preselector 85685 A Hewlett-Packard 2833A00768 22 Biconical Antenna 3104 Emco 3758 23 Log. Per. Antenna	08	Function Generator	AFGU	Rohde & Schwarz	862 480/032
11 Relay-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 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber 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 Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged Horn	09	Regulating Transformer	MPL	Erfi	91350
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 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber 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 Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged Horn 3115 Emco 3088 25 EMI-Analyzer-Display E	10	LISN	NNLA 8120	Schwarzbeck	8120331
13 Power-Sensor 8484 A Hewlett-Packard 2237A10156 14 Power-Sensor 8482 A Hewlett-Packard 2237A00616 15 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber 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 Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged Horn 3115 Emco 3088 25 EMI-Testreceiver ESAI Rohde & Schwarz 863 180/013 26 EMI-Analyzer-Display	11	Relay-Matrix	PSU	Rohde & Schwarz	893 285/020
14 Power-Sensor 8482 A Hewlett-Packard 2237A00616 15 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber 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 Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged Horn 3115 Emco 3088 25 EMI-Testreceiver ESAI Rohde & Schwarz 863 180/013 26 EMI-Analyzer-Display ESAI-D Rohde & Schwarz 888 945/013 28 Log. Per. Antenna	12	Power-Meter	436 A	Hewlett-Packard	2101A12378
15 Modulation Meter 9008 Racal-Dana 2647 16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber 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 Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged Horn 3115 Emco 3088 25 EMI-Testreceiver ESAI Rohde & Schwarz 863 180/013 26 EMI-Analyzer-Display ESAI-D Rohde & Schwarz 886 945/013 28 Log. Per. Antenna HK 116 Rohde & Schwarz 825 584/002 29 Relay-Switch-Unit </td <td>13</td> <td>Power-Sensor</td> <td>8484 A</td> <td>Hewlett-Packard</td> <td>2237A10156</td>	13	Power-Sensor	8484 A	Hewlett-Packard	2237A10156
16 Frequency Counter 5340 A Hewlett-Packard 1532A03899 17 Anechoic Chamber 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 Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged Horn 3115 Emco 3088 25 EMI-Testreceiver ESAI Rohde & Schwarz 863 180/013 26 EMI-Analyzer-Display ESAI-D Rohde & Schwarz 888 945/013 28 Log. Per. Antenna HK 116 Rohde & Schwarz 825 584/002 29 Relay-Switch-Unit RSU Rohde & Schwarz 375 339/002 30 Highpas	14	Power-Sensor	8482 A	Hewlett-Packard	2237A00616
17 Anechoic Chamber 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 Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged 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 Antenna HK 116 Rohde & Schwarz 888 945/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 825 584/002 29 Relay-Switch-Unit RSU Rohde & Schwarz 375 339/002 30 Highpa	15	Modulation Meter	9008	Racal-Dana	2647
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 Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged 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 Antenna HK 116 Rohde & Schwarz 825 584/002 29 Relay-Switch-Unit RSU Rohde & Schwarz 375 339/002 30 Highpass HM985955 FSY Microwave 001 31 Amplifier P42-GA29 Tron-Tech B 23602 32 Anechoic Chamber	16	Frequency Counter	5340 A	Hewlett-Packard	1532A03899
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 Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged 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 Antenna HK 116 Rohde & Schwarz 888 945/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 825 584/002 29 Relay-Switch-Unit RSU Rohde & Schwarz 375 339/002 30 Highpass HM985955 FSY Microwave 001 31 Amplifier P42-GA29 Tron-Tech B 23602 32 Anechoic Chamber	17	Anechoic Chamber		MWB	87400/002
20 Quasi Peak Adapter 85650 A Hewlett-Packard 2811A01131 21 RF-Preselector 85685 A Hewlett-Packard 2833A00768 22 Biconical Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged 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 Antenna HK 116 Rohde & Schwarz 888 945/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 825 584/002 29 Relay-Switch-Unit RSU Rohde & Schwarz 375 339/002 30 Highpass HM985955 FSY Microwave 001 31 Amplifier P42-GA29 Tron-Tech B 23602 32 Anechoic Chamber Frankonia Frankonia 33 Control Computer PSM 7	18	Spectrum Analyzer	85660 B	Hewlett-Packard	2747A05306
21 RF-Preselector 85685 A Hewlett-Packard 2833A00768 22 Biconical Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged 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 Antenna HK 116 Rohde & Schwarz 888 945/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 825 584/002 29 Relay-Switch-Unit RSU Rohde & Schwarz 375 339/002 30 Highpass HM985955 FSY Microwave 001 31 Amplifier P42-GA29 Tron-Tech B 23602 32 Anechoic Chamber Frankonia 33 Control Computer PSM 7 Rohde & Schwarz 834 621/004 34 EMI Test Receiver ESMI Rohde & Schwarz	19	Analyzer Display	85662 A	Hewlett-Packard	2816A16541
22 Biconical Antenna 3104 Emco 3758 23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged 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 Antenna HK 116 Rohde & Schwarz 888 945/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 825 584/002 29 Relay-Switch-Unit RSU Rohde & Schwarz 375 339/002 30 Highpass HM985955 FSY Microwave 001 31 Amplifier P42-GA29 Tron-Tech B 23602 32 Anechoic Chamber Frankonia 33 Control Computer PSM 7 Rohde & Schwarz 834 621/004 34 EMI Test Receiver ESMI Rohde & Schwarz 827 063/010	20	Quasi Peak Adapter	85650 A	Hewlett-Packard	2811A01131
23 Log. Per. Antenna 3146 Emco 2130 24 Double Ridged 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 Antenna HK 116 Rohde & Schwarz 888 945/013 28 Log. Per. Antenna HL 223 Rohde & Schwarz 825 584/002 29 Relay-Switch-Unit RSU Rohde & Schwarz 375 339/002 30 Highpass HM985955 FSY Microwave 001 31 Amplifier P42-GA29 Tron-Tech B 23602 32 Anechoic Chamber Frankonia 33 Control Computer PSM 7 Rohde & Schwarz 834 621/004 34 EMI Test Receiver ESMI Rohde & Schwarz 827 063/010	21	RF-Preselector	85685 A	Hewlett-Packard	2833A00768
24Double Ridged Horn3115Emco308825EMI-TestreceiverESAIRohde & Schwarz863 180/01326EMI-Analyzer-DisplayESAI-DRohde & Schwarz862 771/00827Biconical AntennaHK 116Rohde & Schwarz888 945/01328Log. Per. AntennaHL 223Rohde & Schwarz825 584/00229Relay-Switch-UnitRSURohde & Schwarz375 339/00230HighpassHM985955FSY Microwave00131AmplifierP42-GA29Tron-TechB 2360232Anechoic ChamberFrankonia33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	22	Biconical Antenna	3104	Emco	3758
25EMI-TestreceiverESAIRohde & Schwarz863 180/01326EMI-Analyzer-DisplayESAI-DRohde & Schwarz862 771/00827Biconical AntennaHK 116Rohde & Schwarz888 945/01328Log. Per. AntennaHL 223Rohde & Schwarz825 584/00229Relay-Switch-UnitRSURohde & Schwarz375 339/00230HighpassHM985955FSY Microwave00131AmplifierP42-GA29Tron-TechB 2360232Anechoic ChamberFrankonia33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	23	Log. Per. Antenna	3146	Emco	2130
26EMI-Analyzer-DisplayESAI-DRohde & Schwarz862 771/00827Biconical AntennaHK 116Rohde & Schwarz888 945/01328Log. Per. AntennaHL 223Rohde & Schwarz825 584/00229Relay-Switch-UnitRSURohde & Schwarz375 339/00230HighpassHM985955FSY Microwave00131AmplifierP42-GA29Tron-TechB 2360232Anechoic ChamberFrankonia33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	24	Double Ridged Horn	3115	Emco	3088
27Biconical AntennaHK 116Rohde & Schwarz888 945/01328Log. Per. AntennaHL 223Rohde & Schwarz825 584/00229Relay-Switch-UnitRSURohde & Schwarz375 339/00230HighpassHM985955FSY Microwave00131AmplifierP42-GA29Tron-TechB 2360232Anechoic ChamberFrankonia33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	25	EMI-Testreceiver	ESAI	Rohde & Schwarz	863 180/013
28Log. Per. AntennaHL 223Rohde & Schwarz825 584/00229Relay-Switch-UnitRSURohde & Schwarz375 339/00230HighpassHM985955FSY Microwave00131AmplifierP42-GA29Tron-TechB 2360232Anechoic ChamberFrankonia33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	26	EMI-Analyzer-Display	ESAI-D	Rohde & Schwarz	862 771/008
29Relay-Switch-UnitRSURohde & Schwarz375 339/00230HighpassHM985955FSY Microwave00131AmplifierP42-GA29Tron-TechB 2360232Anechoic ChamberFrankonia33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	27	Biconical Antenna	HK 116	Rohde & Schwarz	888 945/013
30HighpassHM985955FSY Microwave00131AmplifierP42-GA29Tron-TechB 2360232Anechoic ChamberFrankonia33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	28	Log. Per. Antenna	HL 223	Rohde & Schwarz	825 584/002
31AmplifierP42-GA29Tron-TechB 2360232Anechoic ChamberFrankonia33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	29	Relay-Switch-Unit	RSU	Rohde & Schwarz	375 339/002
32Anechoic ChamberFrankonia33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	30	Highpass	HM985955	FSY Microwave	001
33Control ComputerPSM 7Rohde & Schwarz834 621/00434EMI Test ReceiverESMIRohde & Schwarz827 063/010	31	Amplifier	P42-GA29	Tron-Tech	B 23602
34 EMI Test Receiver ESMI Rohde & Schwarz 827 063/010	32	Anechoic Chamber		Frankonia	
	33	Control Computer	PSM 7	Rohde & Schwarz	834 621/004
35 EMI Test Receiver Display Rohde & Schwarz 829 808/010	34	EMI Test Receiver	ESMI	Rohde & Schwarz	827 063/010
	35	EMI Test Receiver	Display	Rohde & Schwarz	829 808/010



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No	Instrument/Ancillary	Type	Manufacturer	Serial No.
36	Control Computer	HD 100	Deisel	100/322/93
37	Relay Matrix	PSN	Rohde & Schwarz	829 065/003
38	Control Unit	GB 016 A2	Rohde & Schwarz	344 122/008
39	Relay Switch Unit	RSU	Rohde & Schwarz	316 790/001
40	Power Supply	6032A	Hewlett Packard	2846A04063
41	Spectrum Monitor	EZM	Rohde & Schwarz	883 720/006
42	Measuring Receiver	ESH 3	Rohde & Schwarz	890 174/002
43	Measuring Receiver	ESVP	Rohde & Schwarz	891 752/005
44	Bicon 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	Polarisation Network	HL 024 Z1	Rohde & Schwarz	341 570/002
49	Double Ridged Horn	3115	EMCO	9107-3696
	Antenna 1-26.5 GHz			
50	Microw. Sys. Amplifier	8317A	Hewlett Packard	3123A00105
	0.5- 26.5 GHz			
51	Audio Analyzer	UPD	Rohde & Schwarz	1030.7500.04
52	Controler	PSM 7	Rohde & Schwarz	883 086/026
53	DC V-Network	ESH3-Z6	Rohde & Schwarz	861 406/005
54	DC V-Network	ESH3-Z6	Rohde & Schwarz	893 689/012
55	AC 2 Phase V-Network	ESH3-Z5	Rohde & Schwarz	861 189/014
56	AC 2 Phase V-Network	ESH3-Z5	Rohde & Schwarz	894 981/019
57	AC-3 Phase V-Network	ESH2-Z5	Rohde & Schwarz	882 394/007
58	Power Supply	6032A	Rohde & Schwarz	2933A05441
59	RF-Test Receiver	ESVP.52	Rohde & Schwarz	881 487/021
60	Spectrum Monitor	EZM	Rohde & Schwarz	883 086/026
61	RF-Test Receiver	ESH3	Rohde & Schwarz	881 515/002
62	Relay Matrix	PSU	Rohde & Schwarz	882 943/029
63	Relay Matrix	PSU	Rohde & Schwarz	828 628/007
64	Spectrum Analyzer	FSIQ 26	Rohde & Schwarz	119.6001.27
65	Spectrum Analyzer	HP 8565E	Hewlett Packard	3473A00773
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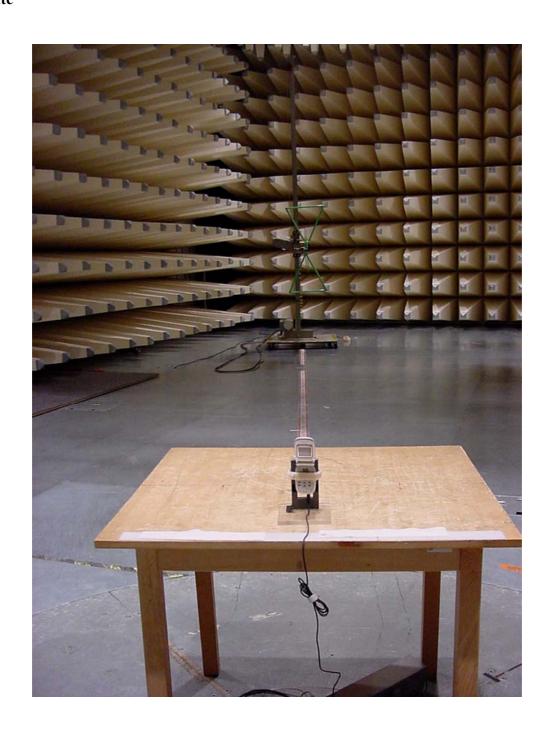
PICTURES

Radiated Emissions





Test site





conducted measurements

