

EXHIBIT 2B

EMC Test Report

Applicant: Northern Telecom Ltd.

For Certification on:

AB6S8000



TEST REPORT

**CFR 47 Part 15
and CFR 47 Part 24**

S8000 outdoor equipped with HePA 1900MHz

N°149021DK

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EMC TEST REPORT

The 19 pages of this report are not sharable FCC registration # 90469

Written by : D.RAUD

8 January 2003

Identification : 149021DK

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APPENDIXES C1 TO C13

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Identification : 149021DK

Applicant:

SANMINA SCI
(Patrick GALOPIN)
46 Rue Pierre Curie
PLAISIR
78376
FRANCE

Product description

Product: S8000 outdoor equipped with HePA 1900MHz

Manufacturer :

NORTEL NETWORKS
38, rue Paul Cézanne
Guyancourt
78928 Yvelines

Responsible of the equipment: (Patrick GALOPIN)

Product type: BTS S8000 OUTDOOR Prototype n° 192101

Power supply: 208V/60Hz , tested at 208 V 60 Hz. biphas

PRODUCT PICTURE:

Cabinet
Front view



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cabinet
rear view



PRODUCT COMPOSITION:

- References E - DRX GSM1900
 - NTQA88PA 03 NNTM7503EIPe
 - NTQA88PA 03 NNTM7503EMOQ
 - NTQA88PA 03 NNTM7503EIZ8
 - NTQA88PA 03 NNTM7503EMOR
 - NTQA88PA 03 NNTM7503EMN5
 - NTQA88PA 03 NNTM7503EMNC

- References HePA PCS 1900
 - NTQA50RA D1 FORM01334273
 - NTQA50RA D1 FORM01334279
 - NTQA50RA D1 FORM01334281
 - NTQA50RA D1 FORM01334277
 - NTQA50RA D1 FORM01334288
 - NTQA50RA D1 FORM01334274



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SPL PCS

NTQA10AA 03 NNTMES001QQA

NTQA10AA 03 NNTMES001QR0

NTQA10AA 03 NNTMES001QR5

NTQA10AA 03 NNTMES001QR6

- References PCS COMBINER H2D

NTQA51AA 01 NNTM6100JTUY

NTQA51AA 01 NNTM6100LPDD

NTQA51AA 07 MTECO223B115

NTQA51AA 03 FORM01295152

- References CPCMI T1 PCBA

NTQA66AA 04 NNTM7501PJRU

- References CMCF PCBA PHASE 2

NTQA66CB 05 NNTMES00FZ1Y

NTQA66CB 05 NNTMES00FZ27

- References RECAL PCBA

NTQA66DA 02 NNTMES00GGJS

- References TYPE F PSU

NTQA57AA 03 ADPL09002RGV

NTQA57AA 03 ADPL09003P77

- References RECTIFIER SHELF 7

NTU47001 P1 SNMN750087C5

- References Rectifier

NTQA91AA 01 PITS01150819

NTQA91AA 03 PITS01Z04242

NTQA91AA 01 PITS01077037

NTQA91AA 01 PITS01077753

NTQA91AA 01 PITS1G78554

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UTILISATION:

Base Transceiver Station

General test conditions**AUXILIARY EQUIPMENT:**

Attenuators and 50 ohms load

WORKING MODE FOR EMISSION TEST

Measurements are done in transmitter mode (all transmitters at maximum power , in BCCH mode without frequency hopping), and in receiver mode
Channels configuration for the test:

DRX#	CHANNE L #	FREQUENCY (MHz)
0	512	1930.2
1	560	1939.8
2	620	1951.8
3	690	1965.8
4	750	1977.8
5	810	1989.8

Software version:

- EDRX : load V14f1e03 (V14.3)
- CMCF : load V12a1e11 (V12.49)

Reference standards choice

The product is information technology equipment . The product standard CFR47 Part 15 has to be used for emission (class B because of residential, commercial and light industry use).

The product is a personal communication service equipment

So, applicable standards are:

CFR47 Part 15 class B (2002)

CFR47 part 24 "Subpart E" (2000)



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Interpretation and remarks:

This equipment conforms to limits standards for EMC measurements.

IMPORTANT REMARK :

Since no emissions were detected in the prescan measurement, substitution method was not performed on S8000 Outdoor

The EUT Plot on page 19 show measured noise floor levels detected while testing the BTS S8000.

Test according to CFR 47 Part 15 Class B

Tests performed by Daniel RAUD at GYL Technologies laboratories, in December, 18 and 19 of 2002.

REFERENCE DOCUMENTATION:

FCC CFR 47 part 15, (2002)

ANSI C63.4 (2001).

CONDUCTED DISTURBANCE AT INPUT POWER ACCESS :

General measurement conditions.

Conforms to ANSI C63.4.

Measurement done in free field

Limit :

Class B of FCC standard regulation CFR 47 part 15 subpart B for conducted emission limit (§15.107 class B device).

Method of measurement.

Method of measurement and test installation according to Section 7 of the ANSI C63.4 measurement standard.



Test equipment used :

APPARATUS	MANUFACTURER	REFERENCE	Identification	Date of verification
EMI test receiver	Rohde & Schwarz	ESI 7	M02020	Dec-01
LISN (50µH / 5/50ohms)	Rohde & Schwarz	ESH2-Z5	M02034	Jun-02

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Highest lines. (CYAN colour trace = Average; GREEN colour = Peak trace)

Live 1

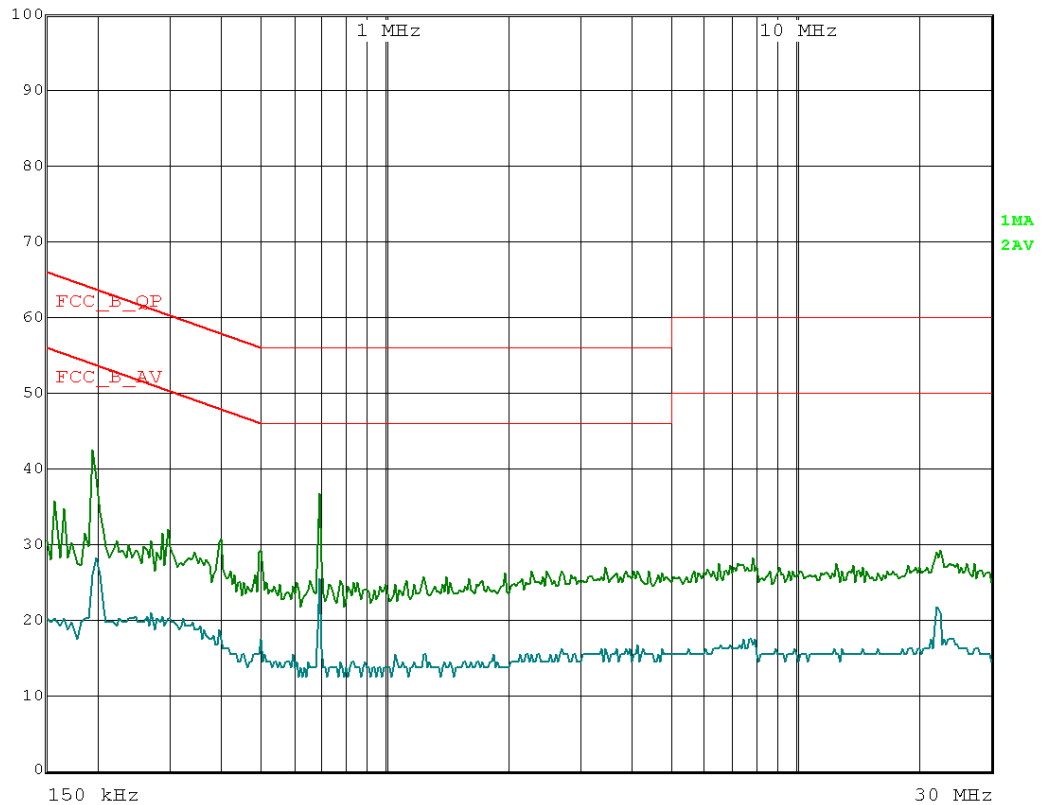
Frequency (MHz)	Quasi-peak (dBμV)	QP margin (dB)
0.158	26.5	-39.1
0.194	34.4	-29.4
0.398	26.9	-31.0
0.498	25.1	-31.0
0.694	32.8	-23.2

Frequency (MHz)	Average (dBμV)	AV. margin (dB)
0.198	28.4	-25.3
0.694	21.4	-24.6
22.106	20.8	-29.2
22.382	21.9	-28.1



Att 30 dB
INPUT 2

Det QP Trd condsect
ResBW 9 kHz
Meas T 100 ms Unit dBμV



Date: 18.DEC.2002 12:34:43

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Live 2

Frequency (MHz)	Quasi-peak (dBμV)	QP margin (dB)
0.198	37.7	-26.0
0.298	30.4	-29.9
0.694	28.2	-27.8
4.090	17.4	-38.6
22.382	23.7	-36.3
23.906	24.8	-35.2
24.126	25.6	-34.4
24.622	24.8	-35.2
24.914	24.8	-35.2

Frequency (MHz)	Average (dBμV)	AV. margin (dB)
0.198	28.1	-25.6
0.694	19.7	-26.3
3.486	16.9	-29.1
20.482	20.3	-29.7
24.118	21.2	-28.8
24.314	21.1	-28.9
24.414	20.5	-29.5
24.514	21.0	-29.0



Att 30 dB

INPUT 2

Det

QP Trd

condsect

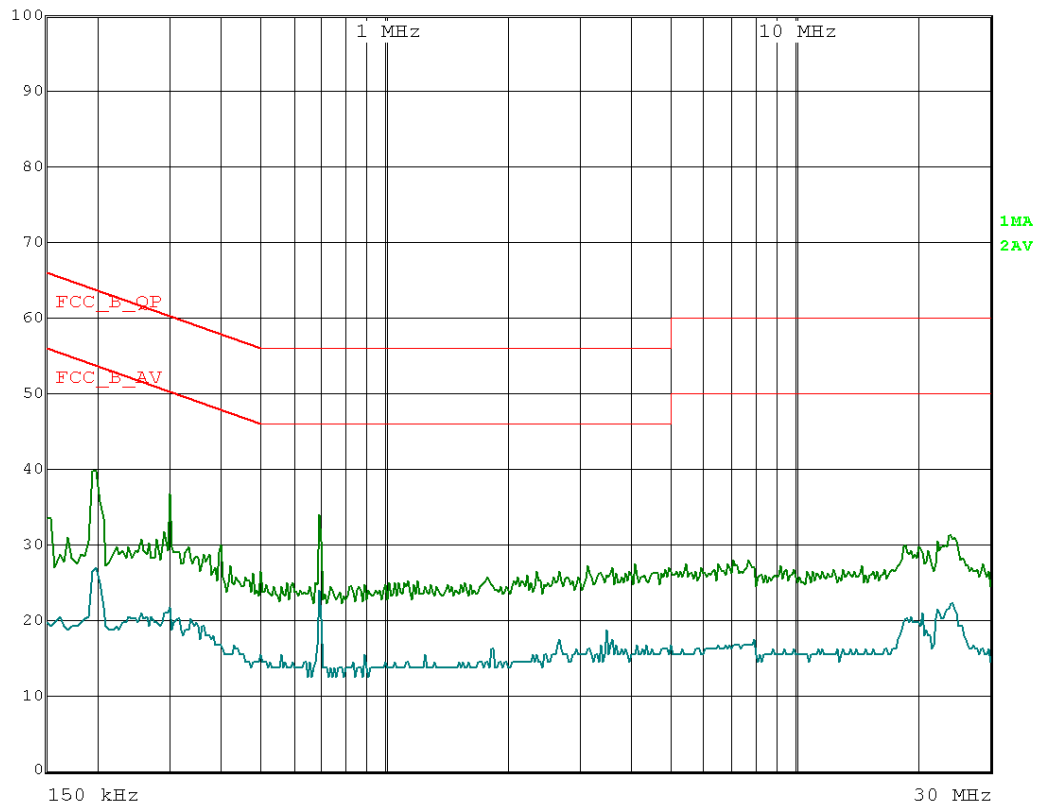
ResBW

9 kHz

Meas T

100 ms Unit

dBμV



Date: 18.DEC.2002 12:37:35

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8 January 2003

Identification : 149021DK

Neutral

Frequency (MHz)	Quasi-peak (dBμV)	QP margin (dB)
0.694	23.1	-32.9
3.958	18.0	-38.0

Frequency (MHz)	Average (dBμV)	AV. margin (dB)
0.694	17.9	-28.1
0.870	12.9	-33.1
3.762	14.0	-32.0
3.954	14.0	-32.0
21.818	16.7	-33.3
22.094	18.6	-31.4
22.646	18.0	-32.0



Att 30 dB

INPUT 2

Det

QP Trd

condsect

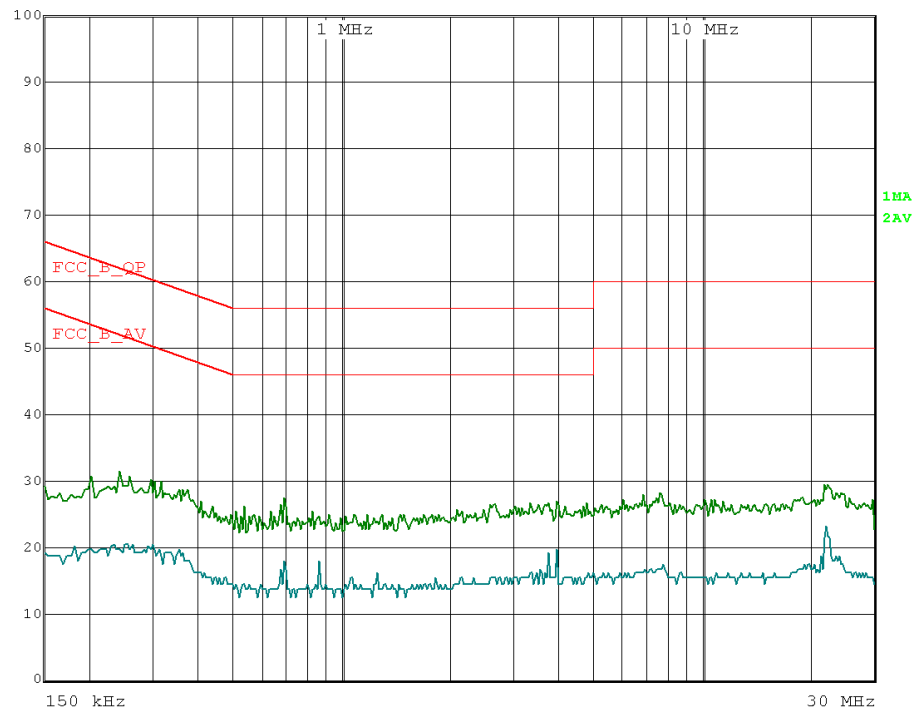
ResBW

9 kHz

Meas T

100 ms Unit

dBμV



Date: 18.DEC.2002 12:32:51

INTERPRETATION AND REMARKS:

	Conform
	Conform but risk of exceeding the limit for an other serial product
	Not conform

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Identification : 149021DK

RADIATED DISTURBANCE :

Limit :

Class B of FCC standard regulation CFR 47 part 15 subpart B for radiated emission limit (§15.109 class B device) for unintentional radiator

General measurement conditions.

Conforms to ANSI C63.4.

Diagram in 0° position, angles are positives in the reverse clock wise.

Equipment under test.

- Front view



- Rear view



Method of measurement.

Method of measurement and test installation according to Section 8 of the ANSI C63.4 measurement standard.

Measurement are done at 10m in a free area.

We try to obtain a maximum at all frequencies by moving the product orientation and antenna polarisation. The height of the antenna can vary from 1 m to 4 m.

Test equipment used :

APPARATUS	MANUFACTURER	REFERENCE	Identification	Date of verification
Free field open area test site				Jul-02
Receiver	Rohde & Schwarz	ESI 7	M02020	Dec-01
Bilog antenna	CHASE	CBL-6112	M02031	Nov-01

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8 January 2003

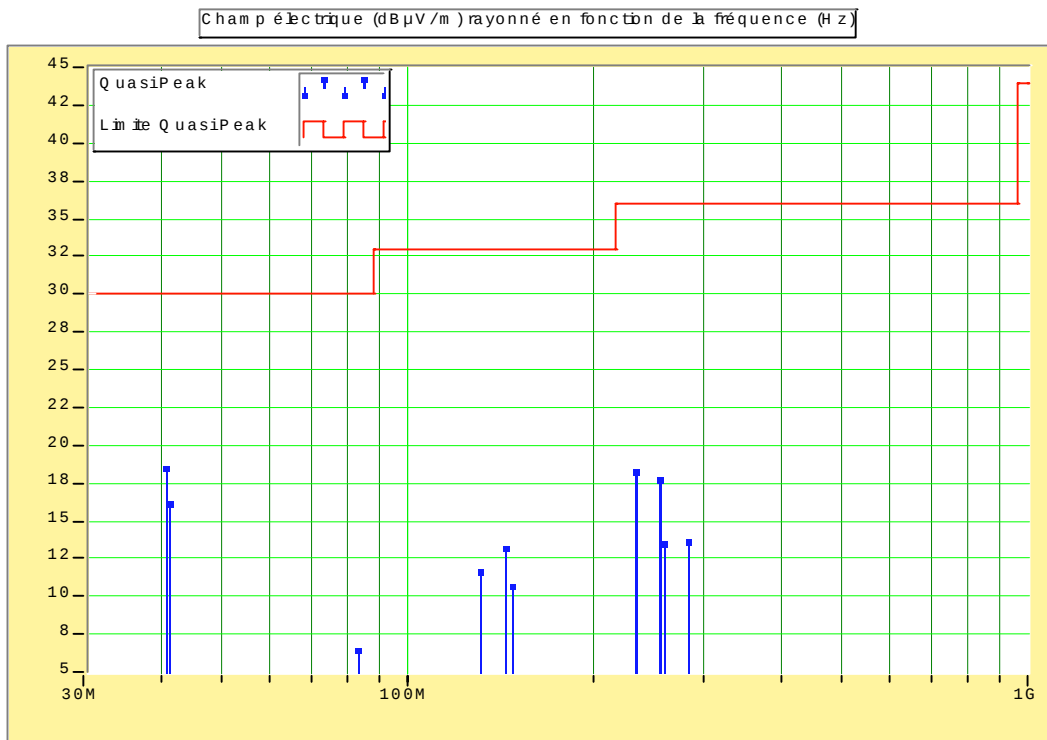
Identification : 149021DK

Results :

Highest lines table (spurious signals):

Frequency (MHz)	Quasi-peak (dB μ V/m)	Std limit (dB μ V/m)	Margin (dB)	Polarisation	hight (cm)	Angle (Deg.)	Corr Fact.	Comment
40.649	18.54	30	-11.46	V	114	215	14.72	
41.322	16.19	30	-13.81	V	101	201	14.48	
83.181	6.48	30	-23.52	V	100	41	8.35	
131.074	11.65	33	-21.35	V	133	94	12.76	
143.363	13.16	33	-19.84	V	131	28	12.06	
147.461	10.66	33	-22.34	V	120	176	11.66	
233.476	18.21	36	-17.79	V	100	48	12.92	
253.956	17.66	36	-18.34	H	356	272	15.65	
258.051	13.49	36	-22.51	V	197	156	13.98	
282.624	13.67	36	-22.33	H	129	313	16.26	

No spurious signal found between 282.624 MHz and 10GHz



INTERPRETATION AND REMARKS:

Conform



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Measurement at transmitters frequencies (D=10m) for indicative level
transmitters output connected to resistive 50 ohms loads .

F (MHz)	Peak Level (dB μ V/m)	Antenna polarity	F (MHz)	Peak Level (dB μ V/m)	Antenna polarity
1930.271	79.01	H	1965.873	77.09	H
1939.869	70.45	H	1977.871	70.97	H
1951.871	77.01	H	1989.869	75.17	H

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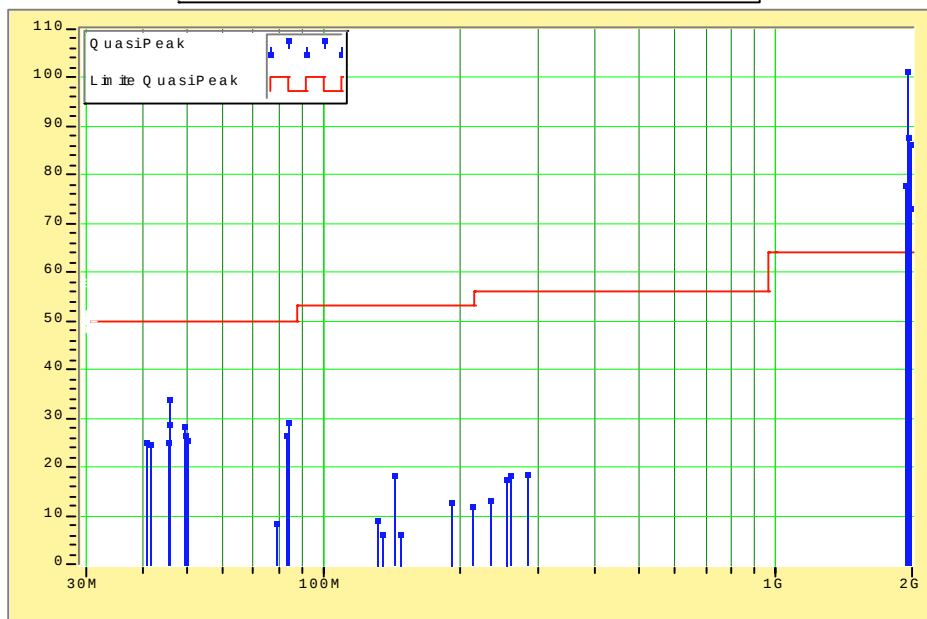
8 January 2003

Identification : 149021DK

Pre-Scan measurement to identify spurious emissions from EUT at D=1m:

F (MHz)	PK (dBμV/m)	Marge (dB)	Pol	H(cm)	A(°)	FC(dB)	Comments
40.621	25.15	-24.85	H	100	0	13.71	
41.323	24.94	-25.06	V	100	270	13.36	
45.531	25.18	-24.82	H	100	0	11.22	
45.752	33.87	-16.13	V	100	0	11.09	
45.932	28.66	-21.34	V	100	270	10.98	
49.399	28.4	-21.6	V	100	270	8.9	
49.719	26.7	-23.3	V	100	0	8.71	
50.173	25.56	-24.44	V	100	270	8.49	
78.357	8.5	-41.5	V	100	270	7.59	
83.19	26.53	-23.47	V	100	270	8.35	
83.479	29.17	-20.83	V	100	270	8.4	
131.101	8.97	-44.03	V	100	270	12.76	
135.174	6.2	-46.8	V	100	270	12.58	
143.375	18.05	-34.95	V	100	270	12.05	
147.463	6.25	-46.75	V	100	270	11.66	
192.549	12.68	-40.32	V	100	270	10.89	
213.018	12.09	-40.91	V	100	270	11.8	
233.507	13.28	-42.72	V	100	270	12.92	
253.948	17.63	-38.37	V	100	270	13.91	
258.036	18.38	-37.62	V	100	270	13.98	
282.685	18.7	-37.3	V	100	270	14.45	
1930.271	77.92	13.92	V	100	0	32.85	Transmitter 1
1939.869	101.3	37.3	H	100	0	32.78	Transmitter 2
1951.871	87.77	23.77	H	100	0	32.62	Transmitter 3
1965.873	86.42	22.42	H	100	0	32.54	Transmitter 4
1977.871	73.24	9.24	V	100	0	32.46	Transmitter 5
1989.869	86.40	22.40	H	100	0	32.43	Transmitter 6

Champ électrique (dBμV/m) rayonné en fonction de la fréquence (Hz)



Test according to CFR 47 Part 24

Tests performed by Daniel RAUD at GYL Technologies laboratories. in December. 19 of 2002.

REFERENCE DOCUMENTATION:

CFR47 part 24 "Subpart E" (2000)
ANSI C63.4 (2001).

RADIATED DISTURBANCE :

General measurement conditions.

Conforms to Section 8 of the ANSI C63.4 measurement standard.
Diagram in 0° position. angles are positives in the reverse clock wise.

RADIATED DISTURBANCE :

General measurement conditions.

Conforms to Section 8 of the ANSI C63.4 measurement standard.
Equipment under test:



Method of measurement.

Method of measurement and test installation according ANSI C63.4.
Measurement are done at 1m in a free area.

We try to obtain a maximum at all frequencies by moving the product orientation and antenna polarisation. The height of the antenna can vary from 1 m to 4 m.

Measurements done in transmitter mode (all transmitters at maximum power 60 W. in BCCH mode without frequency hopping) and in receiver mode.

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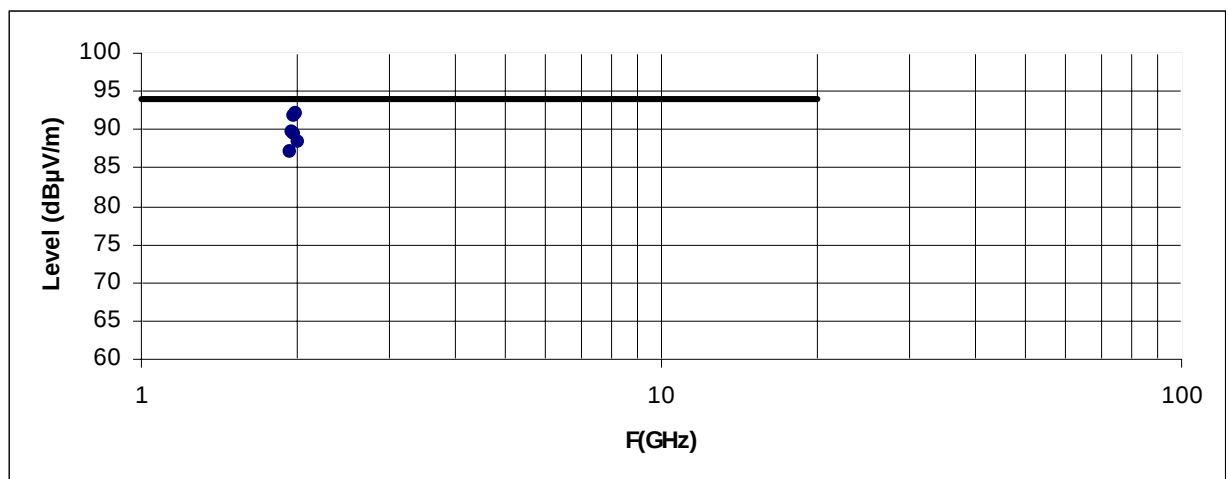
Test equipment used :

APPARATUS	MANUFACTURER	REFERENCE	Identification	Date of verification
Free field open area test site				Jul-02
Horn antenna	EMCO	9504 - 4496	M02045	Apr-01
Spectrum analyzer(20Hz-26.5GHz)	Rohde & Schwarz	FSEM30	M02021	Dec-01

Results :

1 - Measurement at transmitters frequencies for indicative level
transmitters output connected to resistive 50 ohms loads.

FREQUENCY (GHz)	Measure (dBμV)	AF (A)	Loss cable (B)	Correc.Factor (A)+(B)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1						93.9	
1.9302	57.3	27.9	2	29.9	87.2	93.9	-6.7
1.9390	59.8	27.9	2	29.9	89.7	93.9	-4.2
1.9518	59.7	27.9	2	29.9	89.6	93.9	-4.3
1.9658	61.9	27.9	2	29.9	91.8	93.9	-2.1
1.9778	62.2	27.9	2	29.9	92.1	93.9	-1.8
1.9898	58.6	27.9	2	29.9	88.5	93.9	-5.4
20						93.9	



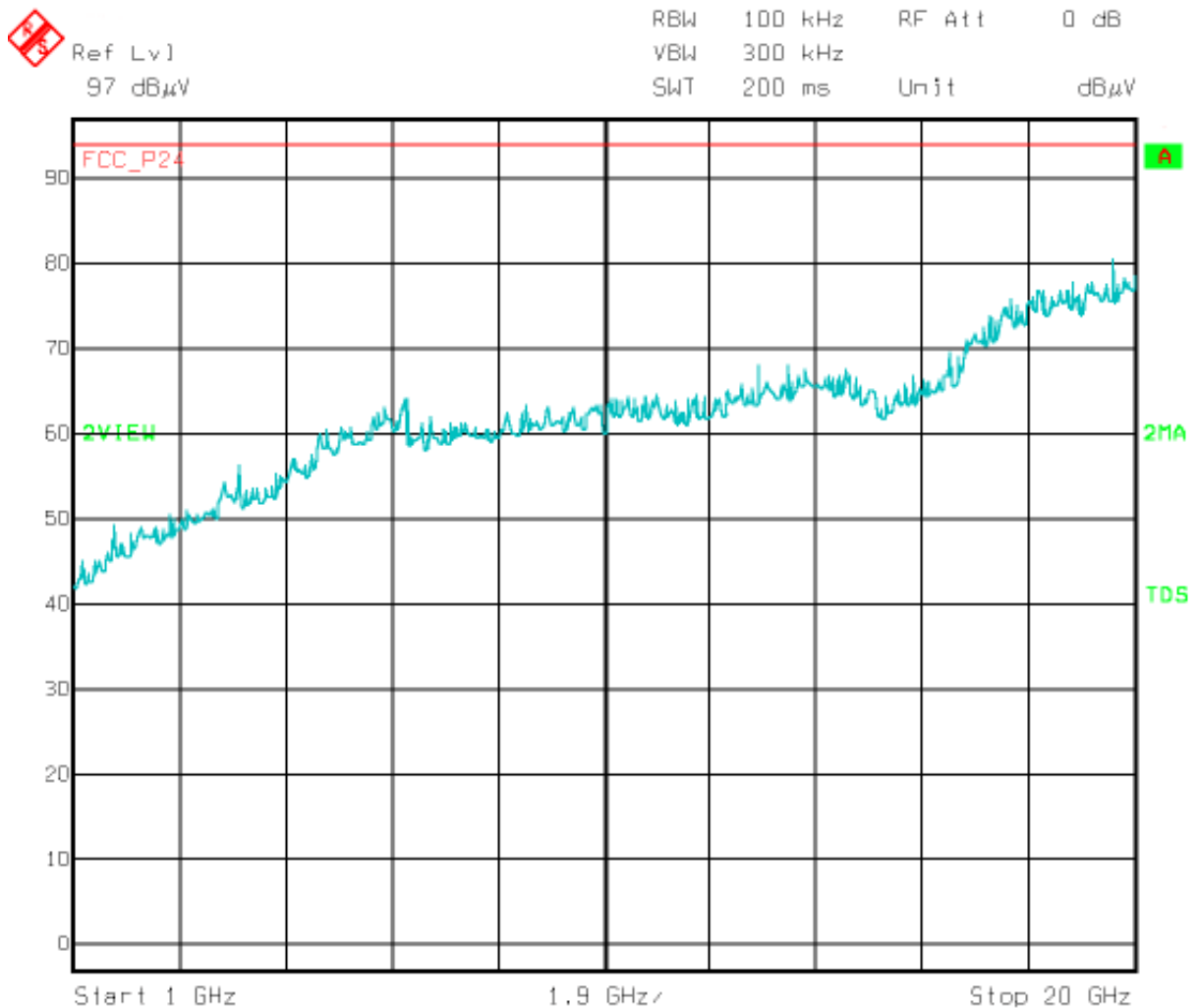
2 - Spurious emissions measurement.

No spurious emission found which level upper to noise level in 100KHz bandwidth (No harmonics of the transmitter's carrier frequencies were detected above the noise level)..

INTERPRETATION AND REMARKS:

Conform

Spectrum of noise level from 1GHz to 20GHz including loss cable and antenna factors





SANMINA - SCI

EMC TEST PLAN for HePA OD 1900 MHz in the S8000 products.

Reference:	Nortel - STP - 00482
Version:	01 - en
Status:	Approved
Date:	29/Nov/2002

Product Name:	S8000 Indoor / Outdoor
Frequency:	PCS
Discipline:	EMC

Author:	P. GALOPIN
Verified by:	T. LUCHINI
Approved by:	C. CHANSARD

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PUBLICATION HISTORY

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01 - en	29/11/02	P. GALOPIN	Creation of the document

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1. INTRODUCTION

1.1. OBJECT

This document presents the tests foreseen for the introduction of the HePA accepting a power until 60 W.

In order to qualify HePA, EMC test must be performed. These new modules can be integrated in GSM 19000 BTS products S8000 Indoor and S8000 Outdoor BTS.

Then, the base stations systems equipped with HePA must comply with the following standard :

- CRF 47 FCC part 15 Section 15.107 August 2002, Section 15.209 August 2002
- CFR 47 FCC part 24 Section 24.238 2000

For covering in the totality the standard FCC part 15, we will realized the tests in the outdoor product.

The reason is that the outdoor products are powered in alternative current, and that the conducted emissions are applicable exclusively on the AC equipment, specific at outdoor products.

1.2. APPLICABILITY

Product	Applicability	Comment
S8000 Outdoor	FCC part 15 § 15.107 & 15.209 FCC part 24 § 24.238	Will be performed
S8000 Indoor	FCC part 15 & 15.209 FCC part 24 § 24.238	Will not be performed. No requirements for the conducted emissions . Conformity covered with tests performed on S8000 outdoor

2. RELATED DOCUMENTS

2.1. APPLICABLES DOCUMENTS

[A1]	CFR 47 Part 24	Code of Federal Regulations - Part 24 PERSONAL COMMUNICATIONS SERVICES. Date : June 1996.
[A2]	CFR 47 Part 2	Code of Federal Regulations - Part 2 - FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS. GENERAL RULES AND REGULATIONS Date : June 1996.
[A3]	CFR-47-Part15	Code of federal Regulatory. Radio Frequency devices.

2.2. REFERENCE DOCUMENTS

[R1]	PCS/BTS/DD/0101	Technical specification for S8000 45W Edge / 60 W GSMK Power Amplifier.
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3. TEST PLAN SUMMARY

Test	Required	Test specification	Reference Method
Radiated emissions	☒	FCC part 15 sub Part 15 B Class B	section 15.109 (30 MHz to 10 GHz) H5
Conducted emissions on AC port AC – 60 Hz – 208 V	☒	FCC part 15	Class B
Radiated emissions	☒	FCC part 24 sub Part E	Section 24.238

4. TEST PLAN

4.1. RADIATED EMISSIONS TESTS

Standard Coverage : FCC Part 15.109 & FCC Part 24.238

Intend :

- (a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonics and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of 2.989, as appropriate. For equipment operating on frequencies below 890 MHz, an open field test is normally required, with the measuring instrument antenna located in the far-field at all test frequencies. In the event it is either impractical or impossible to make open filed measurements (e.g., a broadcast transmitter installed in a building) measurements will be acceptable of the equipment as installed. Such measurements must be accompanied by a description of the site where the measurements were made showing the location of any possible source of reflections which might distort the field strength measurements. Information submitted shall include the relative radiated power of each spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from half-wave dipole antennas.
- (b) The measurements specified in paragraph (a) of this section shall be made for the following equipment :
 - (1) Those in which the spurious emission are required to be 60 dB or more below the mean power of the transmitter.
 - (2) All equipment operating on frequencies higher than 25 MHz.
 - (3) All equipment where the antenna is an integral part of, and attached directly to the transmitter.
 - (4) Other types of equipment as required, when deemed necessary by the Commission.

Test Procedure :

Radiated emission measurement procedures shall be performed as outlined in Section 8 of the ANSI C63.4 measurement standard. The BTS will be tested to the applicable limits of the FCC rules. For radiated emission measurements the measurement distance between the center of the measurement antenna and the equipment under test shall be 3 meters (or less for frequencies above 1 GHz). In order to maximize all emission levels from the equipment, the emissions will be searched with the receive antenna at varied height levels. The equipment shall also be rotated a full 360 degrees on the turntable with the receive antenna at varying height levels (1 to 4 meters). Tests shall be made with the antenna positioned in both the horizontal and vertical planes of polarization. The BTS shall be placed on the turntable as per ANSI C63.4 measurement procedures. Please see the Part 15 test plan as Part 22 & 24 radiated requirements will be tested in conjunction with the Part 15 testing. The spectrum shall be searched to identify emissions. A complete scan of the applicable spectrum shall be completed (up to 10th harmonic of fundamental). The transmitter shall then be turned off, with the rest of the equipment powered on. A complete scan of the spectrum shall be done and referred to as "ambient" without the transmitter keyed on. Emissions emanating from the transmitter shall be identified from comparing these two scans. The identified emissions (from the transmitter) shall be measured and the levels recorded with the transmitter keyed on at full rated power output.

Important remark :

Substitution measurements must be made on all detected emissions given that the limits for the FCC are given in power measurements. If no emissions are detected, measurements should be made at the noise floor levels for each of the transmitter harmonic frequencies and a statement should be placed in the test report indicating that no emissions were detected.

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The equipment was configured as shown in the next figure.

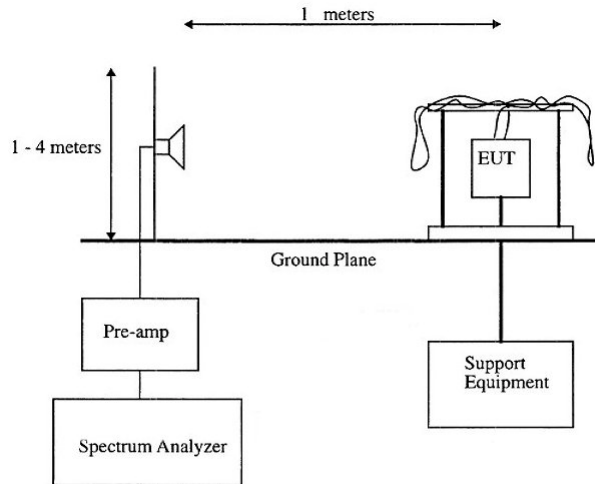


Figure 7 : Test configuration for Radiated Spurious emissions

The BTS was configured to transmit at maximum power (static level 0). Measurements were made according to the procedures outline in ANSI C63.4. The emissions were investigated up to the tenth harmonic of the fundamental emission (20 GHz). The measured level of the emissions was recorded and compared to the limit. The reference level for spurious radiation was taken with reference to an ideal dipole antenna excited by the rated output power according to the following relationship :

$$E(V/m) = \frac{1}{R(m)} * \sqrt{30 * P_t * G}$$

Where,

E = Field Strength in Volts/meter,
R = Measurement distance in meters,
P_t = Transmitter Rated Power in Watts (30 Watts),
G = Gain of ideal Dipole (linear)

Therefore :

$$E(V/m) = \sqrt{30 * 60 * 1.64}$$

E = 54.33 V/m = 154.70 dBμV/m

The spurious emissions must be attenuated by at least 43 + 10*Log(60) = 60.78 dB.

Therefore the field strength limit at 1 meters is :

E = 154.70 dBμV/m – 60.78 dB = 93.9 dBμV/m

Spectrum Analyzer setting during measurements shall be as following :

Receiver Setting	Pre-Scan (to identify spurious emissions from EUT)	Final Measurements
Detector Type	Peak	Quasi-Peak (CISPR)
Mode	Max Hold	Not Applicable
Bandwidth	100 kHz or 1 MHz (for > 1GHz)	120 kHz*
Amplitude Range	60 dB	20 dB
Measurement Time	Not Applicable	> 1s
Observation Time	Not Applicable	> 15s
Step size	Continuous sweep	Not Applicable
Sweep Time	Coupled	Not Applicable
Measuring Distance	3m for 30 MHz - 1GHz 1m for 1GHz - 20GHz	10m for 30 MHz - 1GHz 1m for 1GHz - 20GHz

Pass / Fail criteria :

- For 30 MHz to 1 GHz :
Measurement distance : **10 m**
Limit : [30 MHz-88 MHz] **30 dB μ V/m**
 [88 MHz-216 MHz] **33.5 dB μ V/m**
 [216 MHz-960 MHz] **36 dB μ V/m**
 Above 960 MHz **43.5 dB μ V/m**
- For 1 GHz to 20 GHz :
Measurement distance : 1 m
Limit : **93.9 dB μ V/m**

S/W Configuration – Traffic data flow :

All transmitters in the EUT should be transmitting at full power.

The transmitters' operating frequencies should be selected by setting the Absolute Radio Frequency Channel Numbers (ARFCN) equally distributed over the BSS operating band, subject to any restrictions of the configuration of the EUT.

Transmit Power : All TX at 60 W

5. CONDUCTED EMISSIONS TESTS

Test case name : Conducted emissions AC

Standard Coverage : FCC Part 15.107 (0.150 MHz – 30 MHz)

Intend :

Measurement shall be made in the operational mode producing the largest emission in the frequency band being investigated consistent with normal applications.

Test procedure :

A measuring receiver shall be connected to each RSIL measurement port in turn and the conducted emission levels recorded. The RSIL measurement ports not being used for measurement shall be terminated with a 50 Ω (50 μ H) load.

Pass / Fail Criteria :

Limits for conducted emissions AC mode FCC Part 15 Subpart B (0.150 MHz – 30 MHz)

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.

S/W Configuration – Traffic data flow :

All transmitters in the EUT should be transmitting at full power. The transmitters' operating frequencies should be selected by setting the Absolute Radio Frequency Channel Numbers (ARFCN) equally distributed over the BSS operating band, subject to any restrictions of the configuration of the EUT.

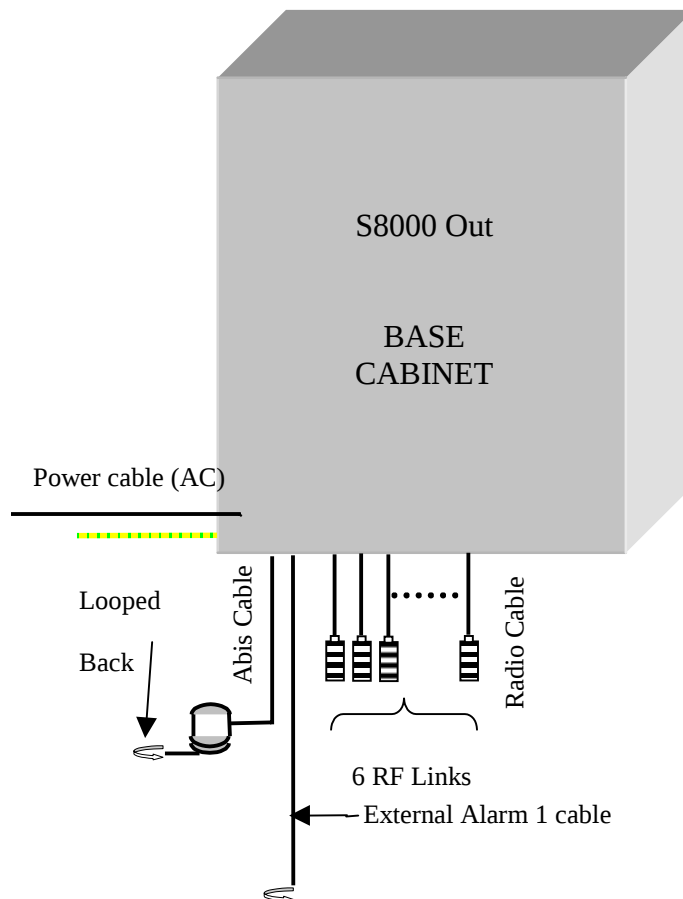
6. DOCUMENTATION DELIVERABLES

The report need to contain the minimum following information :

- all the information contained in this document, in order to identity precisely the configuration under test,
- photographs of the equipment under test (as many as different tests, showing open field test site...),
- any deviation from the test methods defined in the relevant standards,
- all calculation formula used during testing (for example, conversion for a test distance of 10m instead of field measurements),
- description of any modifications made to the EUT during testing which are required to acquire compliance,
- instrumentation and antennas calibration dates,
- for radiated and conducted emissions, a table giving the maximum emission levels in absolute and with respect to the limit (margin). Graphical presentation of the results (such as spectrum analyser plots) has to be incorporated.

6.1. INSTALLATION DIAGRAM

The drawing gives a representation of functional test bench.



7. ABBREVIATIONS

BTS :	Base Transceiver Station
DC :	Direct Current
DCS :	Digital Cellular System
EMC :	Electromagnetic Compatibility
EN :	European Norm
ETS :	ETSI Standard
EUT :	Equipment Under Test
GSM :	Global System Mobile
IT :	Information Technology
N/A :	Not Applicable
RF :	Radio Frequency
TRX :	Transmitter/receiver

8. DEFINITIONS

FCC Part 2 - This part contains the Table of Frequency Allocations and special requirements in international regulations, recommendations, agreements, and treaties. This part also contains standards and procedures concerning the marketing and importation of radio frequency devices, and for obtaining equipment authorization.

FCC Part 15 - This part contains rules setting out the regulations under which an intentional, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of Part 15 devices.

FCC Part 24 - This part states the conditions under which portions of the radio spectrum are made available and licensed for PCS.

Effective Radiated Power (e.r.p.) (in a given direction) - The product of the power supplied to the antenna and its gain relative to a half-wave dipole in a given direction.

Equivalent Isotropically Radiated Power (e.i.r.p.) - The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

Mean power (of a radio transmitter) - The average power supplied to the antenna transmission line by a transmitter during an interval of time sufficiently long compared with the lowest frequency encountered in the modulation taken under normal operating conditions.

❧END OF DOCUMENT❧

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