

EXHIBIT 2B

S12000 EMC Report

Applicant: Northern Telecom Ltd.

For Certification on:

AB6INDS12000

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TEST REPORT

CFR 47 Part 15 CFR 47 Part 22 and CFR 47 24

S12000 indoor (Base + Extension cabinets)

N°149016DK

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Technical control: O, R OY	GYL technologies ANGERS TECHNOPOLE 1, rue Fleming 49066 ANGERS Tel. : 02.41.36.22.33 Fax : 02.41.36.22.23	Quality Control:
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19 July 2002

Identification : 149016DK

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Applicant:

SANMINA SCI (Yoann BRUNETIERE) 19 rue du Centre - CT506 Guyancourt 78928 FRANCE

Product description

Product: S12000 indoor (Base + Extension cabinets)

Manufacturer :

NORTEL NETWORKS 38, rue Paul Cézanne Guyancourt 78928 Yvelines

Responsible of the equipment:

(Yoann BRUNETIERE)

Product type: BTS S12000 INDOOR 850/1900 MHz in S222_222 configuration Ref.:NTU420AA P2 Serial: SNMN75007YBF (base cabinet) Ref.:NTU420AA P2 Serial: SNMN75007Y?? (extension cabinet) Manual: none Power supply: 0/-48Vdc , tested at : 0/-48Vdc

PRODUCT PICTURE:



Tools (support) added for the test

Extension cabinet

Base cabinet



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Extension cabinet

PRODUCT COMPOSITION:

Composition: appendixes C10 to C13

Interconnection and cables type: appendix C9



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UTILISATION:

Base Transceiver Station

General test conditions

AUXILIARY EQUIPMENT:

AC/DC power supply; mark SORENSON; model DHP60-220M1 S/N: 0214A9018

WORKING MODE DURING 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:

	Base	cabinet	Extensio	on cabinet
DRX#	CHANNEL #	FREQUENCY	CHANNEL #	FREQUENCY
		(MHz)		(MHz)
0	172	878.0	512	1930.2
1	194	882.4	566	1941.0
2	128	869.2	620	1951.8
3	150	873.6	674	1962.6
4	216	886.8	728	1973.4
5	238	891.2	782	1984.2
6	539	1935.6	139	871.4
7	593	1946.4	161	875.8
8	647	1957.2	183	880.2
9	701	1968.0	205	884.6
10	755	1978.8	227	889.0
11	810	1989.8	251	893.8

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Reference standards choice

echnologies

Written by : D.RAUD

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 (2001)

CFR47 part 22, (2000) CFR47 part 24, (2000)

Interpretation and remarks:

This equipment complies with limits standards for EMC measurements.

IMPORTANT REMARK :

Substitution method was not performed as there was nor spurious emission neither emission within the limits detected in prescan as shown by appendixes 1-1 and 1-2

The EUT Plot on pages 14 and 17 shows measured noise floor levels detected while testing the BTS 12000



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Test according to CFR 47 Part 15 Class B

Tests performed by Daniel RAUD at GYL Technologies laboratories in July, 17 and 18 of 2002 .

REFERENCE DOCUMENTATION:

FCC CFR 47 part 0 to 15, (2001) ANSI C63.4 (1992).

CONDUCTED DISTURBANCE AT INPUT POWER ACCESS :

Not applicable: powered by -48Vdc



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RADIATED DISTURBANCE :

Limit :

Class B of USA standard regulation CFR 47 part 15 subpart B for radiated emission limit (§15.109 class B device) for unintentional radiator and (§15.209 class B device) for intentional radiator

General measurement conditions.

Conforms to ANSI C63.4. Diagram in 0° position, angles are positives in the reverse clock wise.

Equipment under test.





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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.

APPARATUS	MANUFACTURER	REFERENCE	SERIAL	Date of
			NUMBER	verification
Free field open area test si	ite			Jul-02
Receiver	Rohde & Schwarz	ESI 7	834638/007	Dec-01
*RECEIVERS 30 MHz to	1000 MHz			
Receptive chain :	Hewlett Packard	HP 8574 A	-	-
Q-P Adaptator	Hewlett Packard	HP 85650A	2811A01134	Jan-02
Spectrum analyser	Hewlett Packard	HP 8568 B	2816A116603	Jan-02
Preselector	Hewlett Packard	HP 685685A	287A00784	Jan-02
REMS Software	Hewlett Packard	HP 85879A	-	-
for fieldstrength		rev A.02.01		
*ANTENNAS				
Bilog	CHASE	CBL-6112	2434	Nov-01

Test equipment used :



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Results :

Highest lines table (spurious signals):

Frequency	Quasi-peak	Std limit	Margin	Angle	Site	Polari-	Comment
(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	dB	(Deg.)	(cm)	sation	
32.762	20.0	30	-10	175	300	V	
34.834	16.6	30	-13.4	270	180	V	
40.960	18.0	30	-12	95	290	V	
47.090	12.8	30	-17.2	25	160	V	
65.520	15.0	30	-15	280	160	V	
114.688	12.0	33.5	-21.5	285	100	V	
147.455	13.8	33.5	-19.73	220	270	Н	
212.991	10.6	33.5	-22.9	360	140	V	
512.000	28.3	36	-7.7	325	320	Н	

No spurious signal found over 512,000 MHz



Pre-Scan measurement to identify spurious emissions from EUT at D=3m on appendixes 1-1 and 1-

INTERPRETATION AND REMARKS:





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

F	Peak Level	Antenn	F	Peak	Antenna
(MHz)	$(dB\mu V/m)$	а	(MHz)	Level	polarity
		polarit		$(dB\mu V/m)$	
		у)	
878.0	66.8	Н	871.4	72.8	Н
882.4	63	Н	875.8	69.9	Н
869.2	48.7	Н	880.2	53.1	Н
873.6	86.2	Н	884.6	51.7	Н
886.8	63.5	Н	889.0	66	Н
891.2	64	Н	893.8	68.2	Н



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Identification : 149016DK

Test according to CFR 47 Part 22

Subpart E: § 24.238 Tests performed by Daniel RAUD at GYL Technologies laboratories in July, 18 of 2002 .

REFERENCE DOCUMENTATION:

CFR 47 part 20 to 39, (2000) ANSI C63.4 (1992).

RADIATED DISTURBANCE :

General measurement conditions.

Conforms to Section 8 of the ANSI C63.4 measurement standard.



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 30 W, in BCCH mode without frequency hopping) and in receiver mode.



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Identification : 149016DK

Test equipment used :

APPARATUS	MANUFACTURER	REFERENCE	SERIAL	Date of
			NUMBER	verification
Free field open area test sit	e			Jul-02
Horn antenna	EMCO	9504 - 4496	3115	Apr-00
Spectrum analyzer(20Hz-	Rohde & Schwarz	FSEM30	107 985 00.30	Apr-01
26.5GHz)				

Results :

<u>1</u> - Measurement at transmitters frequencies **for indicative level** transmitters output connected to resistive 50 ohms loads.

FREQUENC	Measu	AF	Loss cable	Correc.Factor	Level	Limit	Margin
Y	re						
(GHz)	(dBµV)	(A)	(B)	(A)+(B)	(dBµV/m)	(dBµV/m)	(dB)
1						93.9	
1.9356	46.60	27.9	2	29.9	76.50	93.9	-17.4
1.9464	38.69	27.9	2	29.9	68.59	93.9	-25.3
1.9572	54.59	27.9	2	29.9	84.49	93.9	-9.4
1.9680	50.68	27.9	2	29.9	80.58	93.9	-13.3
1.9788	45.85	27.9	2	29.9	75.75	93.9	-18.2
1.9898	45.85	27.9	2	29.9	75.75	93.9	-18.2
1.9302	49.75	27.9	2	29.9	79.65	93.9	-14.3
1.9410	44.78	27.9	2	29.9	74.68	93.9	-19.2
1.9518	52.94	27.9	2	29.9	82.84	93.9	-11.1
1.9626	54.41	27.9	2	29.9	84.31	93.9	-9.6
1.9734	49.58	27.9	2	29.9	79.48	93.9	-14.4
1.9842	40.79	27.9	2	29.9	70.69	93.9	-23.2
20						93.9	





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2 - Spurious emissions measurement.

No spurious emission found which level upper to noise level in 100KHz bandwidth (harmonics transmitters frequencies under noise level).

INTERPRETATION AND REMARKS:

Conform

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





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Test according to CFR 47 Part 24

Subpart E: § 24.238 Tests performed by Daniel RAUD at GYL Technologies laboratories in July, 18 of 2002 .

REFERENCE DOCUMENTATION:

CFR 47 part 20 to 39, (2000) ANSI C63.4 (1992).

RADIATED DISTURBANCE :

General measurement conditions.

Conforms to Section 8 of the ANSI C63.4 measurement standard.



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 30 W, in BCCH mode without frequency hopping) and in receiver mode.



The 17 pages of this report are not sharable

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Identification : 149016DK

Test equipment used :

APPARATUS	MANUFACTURER	REFERENCE	SERIAL	Date of
			NUMBER	verification
Free field open area test sit	e			Jul-02
Horn antenna	EMCO	9504 - 4496	3115	Apr-00
Spectrum analyzer(20Hz-	Rohde & Schwarz	FSEM30	107 985 00.30	Apr-01
26.5GHz)				

Results :

<u>1</u> - Measurement at transmitters frequencies **for indicative level** transmitters output connected to resistive 50 ohms loads.

FREQUENC	Measu	AF	Loss cable	Correc.Factor	Level	Limit	Margin
Y	re						
	10						
(GHz)	$(dB\mu V)$	(A)	(B)	(A)+(B)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)
1						93.9	
1.9356	46.60	27.9	2	29.9	76.50	93.9	-17.4
1.9464	38.69	27.9	2	29.9	68.59	93.9	-25.3
1.9572	54.59	27.9	2	29.9	84.49	93.9	-9.4
1.9680	50.68	27.9	2	29.9	80.58	93.9	-13.3
1.9788	45.85	27.9	2	29.9	75.75	93.9	-18.2
1.9898	45.85	27.9	2	29.9	75.75	93.9	-18.2
1.9302	49.75	27.9	2	29.9	79.65	93.9	-14.3
1.9410	44.78	27.9	2	29.9	74.68	93.9	-19.2
1.9518	52.94	27.9	2	29.9	82.84	93.9	-11.1
1.9626	54.41	27.9	2	29.9	84.31	93.9	-9.6
1.9734	49.58	27.9	2	29.9	79.48	93.9	-14.4
1.9842	40.79	27.9	2	29.9	70.69	93.9	-23.2
20						93.9	





19 July 2002

Identification : 149016DK

2 - Spurious emissions measurement.

No spurious emission found which level upper to noise level in 100KHz bandwidth (harmonics transmitters frequencies under noise level).

INTERPRETATION AND REMARKS:

Conform Spectrum of noise level from 1GHz to 20GHz including loss cable and antenna factors. RBW 100 kHz RF Att 0 dB Ref Lv] ٧ВЫ 300 kHz 97 dBµV 200 ms SWT U⊓it dBµV A P290 80 merilionitoria 70 AV and white have a stranger with hur Note 2MA 60 Nurt 50 when TDS 40 30 20 10 Start 1 GHz 1.9 GHz/ Stop 20 GHz



S12000 Indoor 850 / 1900 MHz : EMC test Plan

Reference:	Nortel-STP-00346
Version:	01-en
Status:	Approved
Date:	08/07/2002
Product Name:	S12000 BTS
Frequency:	850 / 1900 MHz
Discipline:	EMC
Author:	Y. BRUNETIERE
Verified by:	T. LUCHINI
Approved by:	C. CHANSARD

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PUBLICATION HISTORY

VERSION	DATE	AUTHOR	MODIFICATION
01-en	08/07/2002	Y. BRUNETIERE	Creation of the document

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1. INTRODUCTION

This objective of this document is to present the test plan for EMC testing on the S12000 BTS Indoor configured in 850 / 1900 MHz. This strategy is the following :

- Realize the qualification in the Indoor 850/1900 MHz in S222_222 configuration (Base & Extension cabinet).

The qualification on the S12000 Indoor BTS will be done according to the FCC Part 15, 22 & 24 as defined by Nortel Networks.

This document presents then the requirements Sanmina needed to ensure the results of the qualification during the qualification phase, and also the tests that will be realized during the two steps described above.

This document applied to :

- Product : S12000 Indoor ٠
- Manufacturer : Nortel Networks •
- Frequencies : 850 / 1900 MHz •
- Configuration : S222 222 (Base & Extension cabinet)
- Ancillary : TBD ٠
- Options : TBD •

2. APPLICABLES DOCUMENTS

[A1]	CFR 47 Part 2	Code of Federal Regulations - Part 2 - Frequency Allocations and Radio Treaty Matters. General Rules and Regulations. Date : June 1996.
[A2]	CFR 47 Part 15	Code of Federal Regulations - Part 15 - Radio Frequency Devices.
[A3]	CFR 47 Part 22	Code of Federal Regulations - Part 22 - Public Mobile Services.
[A4]	CFR 47 Part 24	Code of Federal Regulations - Part 24 - Personal Communications Services. Date : June 1996.

3. TEST PLAN SUMMARY

The following table presents the test plan summary for the qualification of the S12000 Indoor in 850/1900 MHz configuration.

Test	Required	Test Specification	Reference Method	Configuration of the EUT
Radiated Emissions	Yes	FCC Part 15	Section 15.109	
Radiated Emissions	Yes	FCC Part 22	Section 22.917	S12000 Indoor in S222 222
Radiated Emissions	Yes	FCC Part 24	Section 24.238	_

4. RADIATED EMISSION TESTS

Standard Coverage : FCC Part 15.109, FCC Part 22.917 & 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 et 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.

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 :

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

Where,

E = Field Strength in Volts/meter,

R = Measurement distance in meters,

Pt = Transmitter Rated Power in Watts (30 Watts),

G = Gain of ideal Dipole (linear)

Therefore :

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

E = $38.42 \text{ V/m} = 151.69 \text{ dB}_{\mu}\text{V/m}$ The spurious emissions must be attenuated by at least $43 + 10^{*}\text{Log}(30) = 57.7 \text{ dB}$. Therefore the field strength limit at 1 meters is : E = $151.69 \text{ dB}_{\mu}\text{V/m} - 57.7 \text{ dB} = 93.9 \text{ dB}_{\mu}\text{V/m}$

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	10m for 30 MHz - 1GHz
	1m for 1GHz - 20GHz	1m for 1GHz - 20GHz

Spectrum Analyzer setting during measurements shall be as following :

Pass / Fail criteria :

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

5. INSTALLATION DIAGRAM

The drawing gives a representation of functional test bench.



The following table presents the list of cable :

S12000 Indoor Base Cabinet configured in S222_222									
Cables	Description	Length		Quantity					
Radio cables	RG214	10 m	Shielded	6					
Abis cable	NTQA1717	5.5 m	Shielded	1					
Power cable DC (0v/-48v)	Type H07 RN-F	/	Not Shielded	1					
Ground cable DC	Type H07 VK	/	/	1					
External Alarm cables	1	5 m	Shielded	2					
Equipotentiality braid	1	1.5 m	1	1					
Extension cable	NTQA6533	1	Shielded	1					

S12000 Indoor Extension Cabinet configured in S222_222									
Cables	Description	Length		Quantity					
Radio cables	RG214	10 m	Shielded	6					
Power cable DC (0v/-48v)	Type H07 RN-F	/	Not Shielded	1					
Ground cable DC	Type H07 VK	/	1	1					
Equipotentiality braid	/	0.5 m	1	1					

6. TECHNICAL STATUS

6.1. BASE CABINET

DRX	ND PCS					
	NTQA01DA	14	NNTM7503CXSK	47.162.62	.5	
	NTQA01DA	14	NNTM7503CXSG	47.162.62	.5	
	NTQA01DA	14	NNTM7503CXSI	47.162.62	.5	
Е –	DRX GSM190	00				
	NTQA88PA	02	NNTM7503E513	47.162.62	.5	
	NTQA88PA	02	NNTM7503E4Q4	47.162.62	.5	
	NTQA88PA	02	NNTM7503E4PH	47.162.62	.5	
Е –	DRX GSM850)				
	NTQA88HA	D2	CDN200208004	47.162.62	.5	
	NTQA88HA	D2	CDN200208011	47.162.62	.5	
	NTQA88HA	D2	CDN200211007	47.162.62	.5	
	NTQA88HA	D2	CDN200211011	47.162.62	.5	
	NTQA88HA	D2	CDN200211009	47.162.62	.5	
	NTQA88HA	D2	CDN200211010	47.162.62	.5	
SPL	PCS					
	NTQA10AA	04	NNTMES001QR6	NTQA10AA	04	NNTMES001QR0
	NTQA10AA	04	NNTMES001QQY			
RX	SPLITTER GS	SM85	C			
	NTQA88XA	P1	NNTMES00CQZU	NTQA88XA	P1	NNTMESOOCQZK
	NTQA88XA	P1	NNTMES00CQZH			
СОМ	BINER W/O N	/SWR	ASSY 850MHZ			
	NTQA38BA	D1	FORM01285415	NTQA38BA	D1	FORM01285417
	NTQA38BA	D1	FORM01269369			
HDP	L PCS HYBR	ID+D	IPL			
	NTQA51AA	07	MTEC0223B126	NTQA51AA	07	MTEC0223B109
	NTQA51AA	03	FORM01295152			
DUP	LEXER W/O \	/SWR	ASSY 850MHZ			
	NTQA38CA	D1	FORM01285409	NTQA38CA	D1	FORM01285407
	NTQA38CA	D1	FORM01285402	~ -		
PCS	1900 COMB:	INER	DIPLEXER			
	NTQA51DA	01	FORM01303761	NTQA51DA	07	MTEC0212A802
	NTOA51DA	07	MTEC0213A388			

PA EDGE 1900 NTQA50GA 01 PWWT03D3D5JP SECPA 850MHZ \$8000 NTQA37AA D1 PWWT01D3KCFC NTQA37AA D1 PWWT01D3KCFC NTQA37AA D1 PWWT01D3KCFC NTQA37AA D1 PWWT01D3KCFC NTQA37AA D1 PWWT01D3KCKC NTQA37AA 01 PWWT01D3KCLC TYPE F PSU NTQA57AA 03 ADPL09002DR7 NTQA57AA 03 ADPL09002DRZ CPCMI T1 PCBA NTQA6GAA 05 NNTMER00CB2B NTQA6GAA 05 NNTMER00CB5L CMCF PCBA PHASE 2 NTQA66CB 05 NNTMES00FRPC 47.162.62. RECAL PCBA NTQA66CB 05 NNTMES00FRPM 47.162.62. RECAL PCBA NTQA66CB 05 NNTMES00FRPM 47.162.62. RECAL PCBA NTQA66CB 01 SNMN75007V8V CAB: \$12000 IND ASSY NTU420AA P2 SNMN75007V8V CAB: \$12000 IND ASSY NTU420AA P2 SNMN75007V8F MOD: ICS \$12000 IND NTU424AA P3 XBA 109 02/1 P3A n° 133 MOD: DRXICO NTU465AA P1 SNMN27000JBJ MOD: COMICO NTU465AA P1 SNMN75007TZF \$12000 IN DARIN SA000111 P1 SNMN75007TZF \$12000 IN DC MAIN SA000114 P1 SNMN75007TZF	PA PCS 1900 MOI NTQA50DB NTQA50DB	DULE 01 01	PHASE 2 PWWT03D47CRP PWWT03D47NOP	NTQA50DB	01	PWWT03D485YP
ESCPA 850MHZ S8000 NTQA37AA D1 PWWT01D3KCFC NTQA37AA D1 PWWT01D3KCFC NTQA37AA D1 PWWT01D3KCKC TYPE F PSU NTQA57AA 03 ADPL09002DR7 NTQA37AA 01 PWWT01D3KCBC TYPE F PSU NTQA57AA 03 ADPL09002DR7 NTQA57AA 03 ADPL09002DR2 CPCMI T1 PCBA NTQA66AA 05 NNTMER00CB2B NTQA66AA 05 NNTMER00CB5L CMCF PCBA PHASE 2 NTQA66CB 05 NNTMES00FPC 47.162.62. RECAL PCBA NTQA66CB 05 NNTMES00FPKM 47.162.62. RECAL PCBA NTQA66CB 01 SNMN75007V8V CAB: S12000 IND ASSY NTU420AA P2 SNMN75007VBF MOD: ICS S12000 IND NTU420AA P2 SNMN27000JBJ MOD: DRXIC0 NTU465AA P1 SNMN27000JBJ MOD: COMIC0 NTU465AA P1 SNMN75007TZF S12000 IN DC MAIN SA000113 P2 SNMN75007TZF S12000 IN DC MAIN SA000114 P1 SNMN75007TZF	PA EDGE 1900 NTQA50GA NTQA50GA	01 01	PWWT03D3D5JP PWWT03D4D5LP	NTQA50GA	01	PWWT03D334NP
NTQA37AA D1 PWWT01D3KCFC NTQA37AA 01 PWWT01D3KC9C NTQA37AA D1 PWWT01D3KCPC NTQA37AA 01 PWWT01D35K3C NTQA37AA D1 PWWT01D3KCKC NTQA37AA 01 PWWT01D35K3C TYPE F PSU NTQA57AA 03 ADPL09002DR7 NTQA57AA 03 ADPL09002DRZ CPCMI T1 PCBA NTQA66AA 05 NNTMER00CB2B NTQA66AA 05 NNTMER00CB5L CMCF PCBA PHASE 2 NTQA66CB 05 NNTMES00FPC 47.162.62. RECAL PCBA NTQA66DA 02 NNTMES00FPC 47.162.62. RECAL PCBA NTQA66GA 01 SNMN75007V8V CAB: \$12000 IND ASSY NTU420AA P2 SNMN75007VBF MOD: ICS \$12000 IND NTU420AA P2 SNMN75007VBF MOD: DRXIC0 NTU460AA P2 SNMN27000JBJ MOD: COMIC0 NTU465AA P1 SNMN2700045P \$12000 IN DARE CABINET SA000113 P2 SNMN75007YZF \$12000 IN DC MAIN SA000114 P1 SNMN75007YZF	ESCPA 850MHZ S8	8000				
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MOD: DRAICO NTU460AA P2 SNMN27000JBJ MOD: COMICO NTU465AA P1 SNMN2700045P S12000 IN BARE CABINET SA000113 P2 SNMN75007YBE S12000 IN DC MAIN SA000114 P1 SNMN75007TZF S12000 PAICO SD000115 P1 SNMN75007SY8	MOD. DDVICO					
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S12000 IN DC MAIN SA000114 P1 SNMN75007TZF S12000 PAICO SA000115 P1 SNMN75007SY8	SA000113	P2	SNMN75007YBE			
SA000114 P1 SNMN75007TZF S12000 PAICO SA000115 P1 SNMN75007SY8	S12000 IN DC M	AIN				
S12000 PAICO	SA000114	P1	SNMN75007TZF			
SILOUU INICO SILOUU INICO SILOUU INICO	S12000 PATCO					
	SA000115	Р1	SNMN75007SY8			

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Approved 08/07/2002

6.2. EXTENSION CABINET

DRX ND PCS NTQA01DA 14 NTQA01DA 14 NTQA01DA 14	NNTM7503CXLG NNTM7503CXM3 NNTM7500906P	47.162.62 47.162.62 47.162.62	.5 .5 .5	
E - DRX GSM1900 NTQA88PA 02 NTQA88PA 02 NTQA88PA 02	NNTM7503DB5W NNTM7503DBUA NNTM7503DBU5	47.162.62 47.162.62 47.162.62	.5 .5 .5	
E - DRX GSM850 NTQA88HA D2 NTQA88HA D2 NTQA88HA D2 NTQA88HA D2 NTQA88HA D2 NTQA88HA P1 NTQA88HA P1	CDN200208006 CDN200211002 CDN200208007 CDN200211012 CDN200203006 CDN200206003	47.162.62 47.162.62 47.162.62 47.162.62 47.162.62 47.162.62 47.162.62	.5 .5 .5 .5 .5	
SPL PCS NTQA10AA 03 NTQA10AA 03	NNTMES001LZL NNTMES001QNB	NTQA10AA	03	NNTMES001QQ3
RX SPLITTER GSM85 NTQA88XA P1 NTQA88XA P1	0 NNTMES00CQZR NNTMES00CQZI	NTQA88XA	P1	NNTMES000NSL
COMBINER W/0 VSWR NTQA38BA D1 NTQA38BA D1	ASSY 850MHZ FORM01269375 FORM01269370	NTQA38BA	P2	FORM01323513
HDPL PCS HYBRID+1 NTQA51AA 07 NTQA51AA 03	DIPL MTEC0223B116 FORM01295144	NTQA51AA	03	FORM01295142
DUPLEXER W/O VSWR NTQA38CA D1 NTQA38CA D1	ASSY 850MHZ FORM01285408 FORM01285399	NTQA38CA	D1	FORM01285411
PCS 1900 COMBINER NTQA51DA 03 NTQA51DA 07	R DIPLEXER FORM01303759 MTEC0213A370	NTQA51DA	03	FORM01303762

PA PCS 1900 MC	DULE	PHASE 2				
NTQA50DB	01	PWWT03D485XP	NTQA50DB	01	PWWT03D486RP	
NTOA50DB	01	PWWT03D47WEP	NTOA50DB	01	PWWT03D4853P	
NTOA50DB	01	PWWT03D47VCP	NTOA50DB	01	PWWT03D47F5P	
~ • •	-		~			
ESCPA 850MHZ S	8000					
NTQA37AA	D1	PWWT01D355TC	NTQA37AA	01	PWWT01D35TCC	
NTQA37AA	D1	PWWT01D35R0C	NTQA37AA	01	PWWT01D35RYC	
NTQA37AA	D1	PWWT01D35R1C	NTQA37AA	01	PWWT01D3KCEC	
TYPE F PSII						
ΝΤΟΔ57ΔΔ	03	20000019002022	ΝͲΟΔ57ΔΔ	03	20000019002022	
NI Q110 / 101	00	1101 10 90020	1110110/111	00	11011000020	
CPCMI T1 PCBA						
NTQA66AA	05	NNTMER00CB3T	NTQA66AA	05	NNTMER00CB3B	
NTQA66AA	05	NNTMER00CB6L				
CMCE DCBY DAY	2F 2					
NTON 66CD			17 162 62			
NIQAOOCD	05	NNIMESUUERJZ	47.102.02	•		
NIQAOOCD	05	NNIMESUUERRU	47.102.02	•		
RECAL PCBA						
NTQA66DA	02	NNTMES00FOHQ				
CBCF SHELF	0.1	0000175007100				
NTQA66GA	UΙ	SNMN / 500 / V ? ?				
CAB: S12000 IN	ID AS	SSY				
NTU420AA	P2	SNMN75007Y??				
MOD. TOO 01000	о т ъ					
MOD: ICS SIZU		ND 100 00/1	DDD 0 104			
NTU424AA	P3	XBA 109 02/1	P3A n 134			
MOD: DRXICO						
NTU460AA	P2	SNMN27000JBI				
MOD: COMICO	- 4					
NTU465AA	ΡI	SNMN2700045P				
S12000 IN BARE	CAE	BINET				
SA000113	P2	SNMN75007Y??				
S12000 IN DC N	1AIN					
SA000114	P1	SNMN75007VGY				
S12000 PATCO						
SA000115	Р1	SNMN75007W40				
011000110						

7. ABBREVIATIONS AND DEFINITIONS

7.1. ABBREVIATIONS

- BTS Base Transceiver Station
- DC Direct Current
- DCS Digital Cellular System
- DRX Driver Receiver unit
- 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
- RXQUAL Receive Quality
- TRX Transmitter / Receiver

7.2. **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 marking 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 international, 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 22 – The purpose of these rule is to establish the requirements and conditions under which domestic common carrier radio stations may be licensed and used in the Public Mobile Services.

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 (ERP) – 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 tile sufficiently long compared with the lowest frequency encountered in the modulation taken under normal operating conditions.

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SM CDM	TANDARI EASUREN ONDITIO ATE EASUREN ALL SUS	D MENT DNS MENT DONI SPECTS	: F(: El : Jt : Jt E BY	CC CF LECTI HI(Vdc/· uly, : [FR47 I RIC F GHER I -48Vd 17 o D.RAU	PART IELD c f 200: D	15 30MH SIG 2	CLASS z-1GH NALS	3 B Hz (PF FOUNI	(Limit RESCAN)) DURIN	for D=3 5 PRESCA	m) D=3m N MEASUREMENT	
	No	FREQ MHz	BND	PI	EAK ABS	ANT P cm	AZ		COMM	1ENTS			
	1	32.760	1	-5	25.0	V100	0						
	2	34.839	1	-2	28.5	V100	180						
	3	40.960	2	-6	23.8	V100	180						
	4	47.090	2	-11	18.5	V100	Ø						
	5	65.520	5	-7	22.6	H100	180						
	6	111.997	11	-11	22.7	V100	180						
	7	114.680	11	-13	20.7	H100	Ø						
	8	122.875	12	-13	20.9	H100	Ø						
	9	131.066	12	-11	22.1	H100	180						
	10	135.169	13	-16	17.7	V100	180						
	11	137.297	14	-14	19.0	V100	180						
	12	139.263	14	-14	19.8	H100	180						
	13	147.469	15	-6	27.1	H100	180						
	14	155.292	16	-15	18.7	0100	0						
	15	163.820	17	-9	24.0	HIUO	0						
	10	185.345	10	-17	15.1	V100	0						
	10	187.420	18	-18	15.0	HIUO	0						
	10	214,305	10	-9	17 1	11100	0						
	13	271 100	20	-10	20 0	U100	100						
	20	225 220	20	-17	10 0	1100	100						
	21	220,210	20	-10	10.0	1100	0						
	22	126 120	20	-10	71 7	1100	0						
	24	168 018	25	-5	31 1	U100	190						
	25	512 00	26	-1	34 9	H100	Ø						
	26	869.190	29	47	82.6	U100	180	- 1					
	27	871.410	29	36	71.9	H100	180						
	28	873.660	29	50	86.0	V100	180						
	29	875.870	29	38	73.9	H100	180					A. F	-
	30	878,040	29	42	77.8	H100	Ø					M	
	31	880.250	29	30	65.6	H100	Ø	1	12	Tren			
	32	882.460	29	41	77.2	H100	Ø	1	112	ITAN:	mille	15	
	33	884.633	29	30	65.6	H100	Ø						
	34	886.890	29	33	69.2	H100	Ø						
	35	889.035	29	31	67.5	V100	180						
	36	891.258	29	34	70.4	H100	Ø						
	37	893.858	29	34	70.0	V100	180	/					

* denotes a Final List signal

REPORT	: 149016DK APPENDIX 1-2
PRODUCT NAME	: S12000 INDOOR (BASE+EXTENSION)
STANDARD	: FCC CFR47 PART 15 CLASS B (Limit for D=3m)
MEASUREMENT	: ELECTRIC FIELD 30MHz-1GHz (PRESCAN) D=3m
	HIGHER LEVEL SIGNALS FOUND DURING PRESCAN MEASUREMENT
CONDITIONS	: ØVdc/-48Vdc
DATE	: July, 17 of 2002
MEASUREMENT	DONE BY : D.RAUD



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