



Test & Certification Center (TCC) - Dallas

FCC ID: GMLRH-41
Test Report #: 03-EM-0142.002
August 28, 2003

Accredited Laboratory
Certificate Number: 1819-01

Ver 1.0

CFR 47 Part 2, 22, and 24 Test Report

Test Report Number: 03-EM-0142.002

Terminal device: FCC ID: GMLRH-41, Model: 2260, Type: RH-41, HW: 1170f, 1171f, 1150f SW: 3.02
(Detailed information is listed in section 4).

Originator: Mark Severson
Function: TCC - Dallas – EMC
Version/Status: 1.0 Approved
Location: TCC Directories
Date: August 28, 2003

Change History:

Version	Date	Status	Handled By	Comments
0.1	Aug 25, 2003	Draft	Mark Severson	Draft
0.2	Aug 28, 2003	Reviewed	M.Mobley	Reviewed
1.0	Aug 28, 2003	Approved	Alan Ewing	Approved

Testing laboratory: Test & Certification Center (TCC) Dallas
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Client: Nokia Corporation
Nokia Mobile Phones
Model 2260, FCC ID: GMLRH-41
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Date and signatures:

August 28, 2003

For the contents:

Nerina Walton, EMC Engineer
Technical Review

Alan C. Ewing, General Manager
Manager Review

TABLE OF CONTENTS

1. GENERAL	4
1.1 QUALITY SYSTEM	4
1.2 LIST OF GENERAL INFORMATION REQUIRED FOR CERTIFICATION	4
1.3 OBJECTIVE	7
1.4 TEST SUMMARY	7
2. STANDARDS BASIS	8
3. LIST OF ABBREVIATIONS, ACRONYMS AND TERMS	9
3.1 ABBREVIATIONS	9
3.2 ACRONYMS	9
3.3 TERMS	9
4. EQUIPMENT-UNDER-TEST (EUT)	10
4.1 DESCRIPTION OF TESTED DEVICE(S)	10
4.2 PHOTOGRAPH OF TESTED DEVICE(S)	10
5. TEST EQUIPMENT LIST	11
6. RF POWER OUTPUT (RADIATED)	12
6.1 SETUP	12
6.2 PASS/FAIL CRITERIA	12
6.3 DETAILED TEST RESULTS	12
6.4 MEASUREMENT UNCERTAINTY	12
7. OCCUPIED BANDWIDTH (TRANSMITTER CONDUCTED MEASUREMENTS)	13
7.1 SETUP	13
7.2 PASS/FAIL CRITERIA	13
7.3 DETAILED TEST RESULTS	13
7.4 MEASUREMENT UNCERTAINTY	13
8. SPURIOUS EMISSIONS AT ANTENNA TERMINALS	14
8.1 SETUP	14
8.2 PASS/FAIL CRITERIA	14
8.3 DETAILED TEST RESULTS	14
8.4 MEASUREMENT UNCERTAINTY	14
9. FIELD STRENGTH OF SPURIOUS RADIATION	15
9.1 SETUP	15
9.2 PASS/FAIL CRITERIA	15
9.3 DETAILED TEST RESULTS	16
9.4 MEASUREMENT UNCERTAINTY	18
10. FREQUENCY STABILITY (TEMPERATURE VARIATION)	19
10.1 SETUP	19
10.2 PASS/FAIL CRITERIA	19
10.3 DETAILED TEST RESULTS	19
11. FREQUENCY STABILITY (VOLTAGE VARIATION)	20
11.1 SETUP	20

Test & Certification Center (TCC) - Dallas

FCC ID: GMLRH-41

Test Report #: 03-RF-0142.002

August 28, 2003

Ver 1.0

11.2	PASS/FAIL CRITERIA	20
11.3	DETAILED TEST RESULTS	20
APPENDIX	21

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Test & Certification Center (TCC) - Dallas

FCC ID: GMLRH-41

Test Report #: 03-RF-0142.002

August 28, 2003

Ver 1.0

1. GENERAL

1.1 Quality System

The quality system in place for TCC-Dallas conforms to ISO/IEC 17025 and has been audited to the standard by A2LA (American Association of Laboratory Accreditation). The appendix of this report contains the scope of accreditation for A2LA. TCC – Dallas has also been audited using the ISO 9000 Quality System, as part of Nokia Mobile Phones, Inc., by ABS (American Bureau of Shipping) Quality Evaluations Inc.

TCC-Dallas is a recognized laboratory with the Federal Communications Commission in filing applications for Certification under Parts 15 and 18, Registration Number 100060, and Industry Canada, Registration Number IC 661.

1.2 List of General Information Required for Certification

This list is in accordance with FCC Rules and Regulations, CFR 47, Part 2, and to 22H, 24E Confidentiality.

1.2.1 Sub-part 2.1033(c)(1)

Name and Address of Applicant: Nokia Corporation
Nokia Mobile Phones
Elektroniikkatie 10
FIN-90570 OULU
FINLAND

Manufacturer: Nokia Brazil Manaus AM
Rod. Torquato Tapajós, 7200 KM 12 - Tarumã
Postal code: 69048-660
Manaus, Amazonas, Brazil

Nokia Mexico, S.A. DE C.V.
Ave. Ind. Rio Bravo s/n, Parque Ind. del Nte.
Cd. Reynosa, Tam. CP, 88730

Nokia TMC Ltd
973-6 Yangduck-Dong
Hwe won-ku, Masan
Korea

1.2.2 Sub-part 2.1033(c)(2)

FCC ID: **GMLRH-41**

Model No: 2260

1.2.3 Sub-part 2.1033(c)(3)

Instruction Manual(s):
Refer to attached EXHIBITS

1.2.4 Sub-part 2.1033(c)(4)

Type of Emission: 40K0F1D, 40K0F8W, 30K0DXW

Test & Certification Center (TCC) - Dallas

FCC ID: GMLRH-41

Test Report #: 03-RF-0142.002

August 28, 2003

Ver 1.0

1.2.5 Sub-part 2.1033(c)(5)

Frequency Range, MHz: 824.04 to 848.97
1850.04 to 1909.92

1.2.6 Sub-part 2.1033(c)(6)

Power Rating, Watts: 0.219 ERDP AMPS
0.479 ERDP Cellular Band - TDMA
1.122 EIRP PCS Band - TDMA

Switchable Variable N/A

FCC Grant Note: BC- The output power is continuously variable from the value listed in this entry to 5%-10% of the value listed.

Test & Certification Center (TCC) - Dallas

FCC ID: GMLRH-41

Test Report #: 03-RF-0142.002

August 28, 2003

Ver 1.0

1.2.7 Sub-part 2.1033(c)(7)

Maximum Power Rating, Watts: 1.122

1.2.8 Sub-part 2.1033(c)(8)

Voltages & Currents in all elements in final R.F. Stage, including final transistor or solid-state device:

Collector Current, A = 312mA

Collector Voltage, Vdc = 3.6

Supply Voltage, Vdc = 3.6

1.2.9 Sub-part 2.1033(c)(9)

Tune-up Procedure:

Refer to attached EXHIBITS

1.2.10 Sub-part 2.1033(c)(10)

Circuit Diagram/Circuit Description:

Including description of circuitry & devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation and limiting power.

Refer to attached EXHIBITS

1.2.11 Sub-part 2.1033(c)(11)

Label Information:

Refer to attached EXHIBITS

1.2.12 Sub-part 2.1033(c)(12)

Photographs:

Refer to attached EXHIBITS

1.2.13 Sub-part 2.1033(c)(13)

Digital Modulation Description:

N/A

1.2.14 Sub-part 2.1033(c)(14)

Test and Measurement Data:

FOLLOWS

Test & Certification Center (TCC) - Dallas

FCC ID: GMLRH-41

Test Report #: 03-RF-0142.002

August 28, 2003

Ver 1.0

1.3 Objective

All tests and measurement data shown was performed to determine whether the selected handset was in compliance as specified in FCC: CFR47 Parts 2.947, 2.1033(c), 2.1041, 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, Part 22, and Part 24.

1.4 Test Summary

Test Results: *The test result relates only to those tested devices mentioned in Section 4 of this test report.*

Test Performed	Reference	Section of Report	Complies / Does not comply
RF Power Output (Radiated)	FCC Part 22.913(a) / 24.232(b)	6	Not Tested
Occupied Bandwidth: Transmitter Conducted Measurements	FCC Part 2.1049(c)(1), 24.238(a)(b)	7	Not Tested
Spurious Emissions at Antenna Terminals	FCC Part 2.1051	8	Not Tested
Field Strength of Spurious Radiation	FCC Part 2.1053	9	Complies
Frequency Stability (Temperature Variation)	FCC Part 2.1055(a)(1)(b), 24.235	10	Not Tested
Frequency Stability (Voltage Variation)	FCC Part 2.1055(d)(1)(2), 24.235	11	Not Tested

2. STANDARDS BASIS

Testing has been carried out in accordance with:

REF.	Code of the standard	Name of the standard
1	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.
2	FCC: CFR 47 Part 2	Code of Federal Regulations (CFR) Title 47, Part 2 – Frequency Allocations and Radio Treaty Matters; General Rules and Regulations: Subpart J – Equipment Authorization Procedures
3	FCC: CFR 47 Part 22	Code of Federal Regulations (CFR) Title 47, Part 22 – Public Mobile Services: Subpart H – Cellular Radiotelephone Service
4	FCC: CFR 47 Part 24	Code of Federal Regulations (CFR) Title 47, Part 24 – Personal Communications Services: Subpart E – Broadband PCS
5	RSS-132	800 MHz Cellular Telephones Employing New Technologies
6	RSS-133	2 GHz Personal Communications Services, Industry Canada
7	RSS-212	Test Facilities and Test Methods for Radio Equipment, Industry Canada (Provisional)
8	RSP-100	Radio Equipment Certification Procedure

Note: Unless otherwise stated, (by reference to a version number and a publication date), the latest version of the above documents applies.

Deviations:

Not Applicable.

3. LIST OF ABBREVIATIONS, ACRONYMS AND TERMS

3.1 Abbreviations

dB - decibel

dBm - decibels per milliwatt (absolute measurement)

GHz - gigahertz or 1000000000 hertz

kHz - kilohertz or 1000 hertz

MHz - megahertz or 1000000 hertz

3.2 Acronyms

AMPS - Advanced Mobile Phone System

BSS - Base Station Simulator

CDMA - Code Division Multiple Access

EDRP - Effective Dipole Radiated Power

EIRP - Effective Isotropic Radiated Power

EMC - Electromagnetic Compatibility

EMI - Electromagnetic Interference

ERP - Effective Radiated Power

EUT - Equipment under Test

GSM - Global System for Mobile communications

PCS - Personal Communications Services

RF - Radio Frequency

TDMA - Time Division Multiple Access

3.3 Terms

Base Station Simulator (BSS) - simulates all the necessary signals that a phone would experience while on a live network. There are many types of base station simulators catering for all current protocols, i.e., GSM, AMPS, TDMA, and CDMA.

Cellular - refers to a frequency in the 800MHz band.

PCS - refers to a frequency in the 1900MHz band.

4. EQUIPMENT-UNDER-TEST (EUT)

The results in this report relate only to the items listed below:

4.1 Description of Tested Device(s):

Test Performed	Mode of Operation	Date of Receipt	Condition of Sample	Item	Identifying Information
2.1053, 22.913(a), 24.232(b)(c)	AMPS TDMA 800/1900	23-June-2003	Good	Phone	FCC ID: GMLRH-41 Type: RH-41 HW: 1170f SW: 3.02 ESN: 07201965959 HW: 1171f SW: 3.02 ESN: 07201965869 HWI: 1150f SW: 3.02 ESN: 07201966044
2.1049(c)(1), 2.1051, 2.1055(d)(1)(2), 2.1055(a)(1)(b), 22.917, 24.235, 24.238(a)(b)	N/A	N/A	N/A	N/A	Not Tested
2.1049(c)(1), 2.1051, 2.1053, 2.1055(d)(1)(2), 2.1055(a)(1)(b), 22.913(a), 22.917, 24.232(b)(c), 24.235, 24.238(a)(b)	N/A	N/A	N/A	N/A	Not Tested

4.2 Photograph of Tested Device(s):

Refer to attached EXHIBITS

5. TEST EQUIPMENT LIST

The listing below indicates the test equipment utilized for the test (s). Calibration interval on all items listed can be obtained from the Engineering Services Group within NMP, Product Creation - Dallas. Where relevant, measuring equipment is subjected to in-service checks between testing. TCC - Dallas shall notify clients promptly, in writing, of identification of defective measuring equipment that casts doubt on the validity of results given in this report.

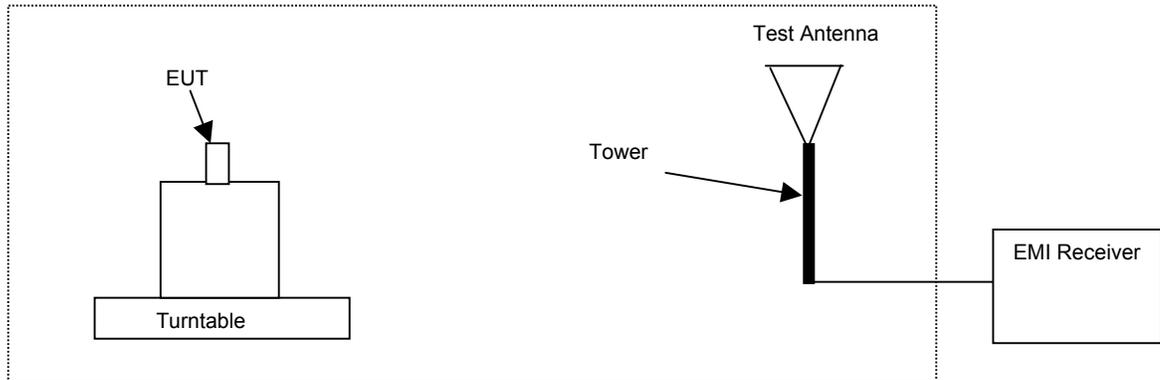
Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
993	Horn antenna	A.H. Systems SAS-200/571	XXX	Jan-02	Jan-04
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	Jul-03	Jul-04
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	Jul-03	Jul-04
1464	Cable 2.0-16.0 Ghz	Storm PR90-010-072	N/A	Jul-03	Jul-04
1483	Cable 4m	Storm PR90-10-0144	N/A	Apr-03	Apr-04
1016	Preamplifier	Hewlett Packard 8449A	2749A00159	Jul-03	Jul-04
Nokia ID	Base Station Simulator	Wavetek	N/A	Nov-03	Jul-04

Test Equipment	NMP #	Test Performed
Base Station Simulator (Wavetek 4200)	02281	Call Mode Spurious Radiated Emissions
Biconilog Antenna (3142b)	01472	Call Mode Spurious Radiated Emissions
EMI Receiver (HP8546A)	02664	Call Mode Spurious Radiated Emissions
EMI Receiver (HP85460A)	02665	Call Mode Spurious Radiated Emissions
EMI Receiver (E7405A)	02679	Call Mode Spurious Radiated Emissions
Pre-Amplifier (HP8449B)	00001	Call Mode Spurious Radiated Emissions
Horn Antenna (3115)	02857	Call Mode Spurious Radiated Emissions
Horn Antenna (3115 for final measurements)	00064	Call Mode Spurious Radiated Emissions
Signal Generator (83630B - for final measurements)	02671	Call Mode Spurious Radiated Emissions
Turntable and Tower Controller	02846	Call Mode Spurious Radiated Emissions
Weinschel Attenuator (10dB)	None	Call Mode Spurious Radiated Emissions

6. RF POWER OUTPUT (RADIATED)

Specification: FCC Part 22.913(a), 24.232(b)(c)

6.1 Setup



6.2 Pass/Fail Criteria

Band	FCC Limit (dBm)
Cellular	38.5 (EDRP)
PCS	33.0 (EIRP)

6.3 Detailed Test Results

Test Not Performed

6.4 Measurement Uncertainty

The measurement uncertainty for this test is +/- 2.4dB for 800 to 2000 MHz.

7. OCCUPIED BANDWIDTH (TRANSMITTER CONDUCTED MEASUREMENTS)

Specification: FCC Part 2.1049(c)(1), 24.238(a)(b)

7.1 Setup

Testing was performed with the EUT connected to a 6dB attenuator, 6dB splitter, filter bank and then to the EMI receiver. The base station simulator was connected to the other port of the splitter to establish a call.

7.2 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Limits (dBm)
Cellular 800 Low Channel	< 824	-13
Cellular 800 High Channel	> 849	-13
PCS 1900 Low Channel	< 1850	-13
PCS 1900 High Channel	> 1910	-13

7.3 Detailed Test Results

Test Not Performed

7.4 Measurement Uncertainty

The measurement uncertainty for this test is +/- 3.7dB for 100kHz - 1000MHz and +/- 5.3dB for 1 - 20GHz.

8. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Specification: FCC Part 2.1051

8.1 Setup

Testing was performed with the EUT connected to a 6dB attenuator, 6dB splitter, filter bank and then to the EMI receiver. The base station simulator was connected to the other port of the splitter to establish a call. Filters were introduced to reduce or eliminate spurious emission, which could be generated internally in the EMI receiver.

8.2 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Limits (dBm)
Cellular / PCS	30 – 20000 *	-13

* Frequency to be investigated up to the 10th harmonic of the highest clock or frequency used.

8.3 Detailed Test Results

Test Not Performed

8.4 Measurement Uncertainty

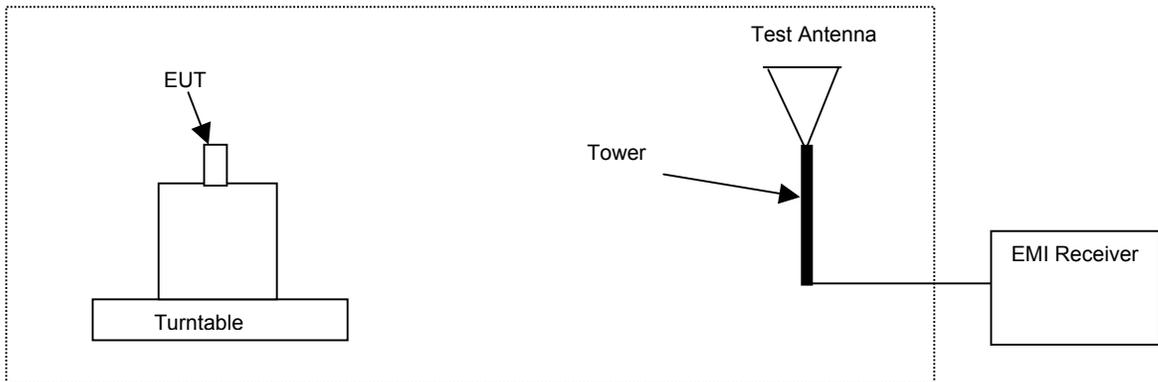
The measurement uncertainty for this test is +/- 3.7dB for 100kHz - 1000MHz and +/- 5.3dB for 1 - 20GHz.

9. FIELD STRENGTH OF SPURIOUS RADIATION

Specification: FCC Part 2.1053

9.1 Setup

Test equipment set-up.



9.2 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Limit (dBm)
Cellular / PCS	30 – 20000*	-13

- Frequency to be investigated up to the 10th harmonic of the highest clock or frequency used.

Substitution method according to ANSI/TIA/EIA 603-1 was used for final measurements.

Test & Certification Center (TCC) - Dallas
 FCC ID: GMLRH-41
 Test Report #: 03-RF-0142.002
 August 28, 2003

Ver 1.0

9.3 Detailed Test Results

Test Technician / Engineer	Nemko Dallas	
Date of Measurement	August 12, 2003	
Temperature / Humidity	22°C	56%RH
Test Result	Complies with FCC Part 2.1053	

Cellular Band, AMPS 836.52 MHz, Channel 384

Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)	Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	Limit (dBm)	ERP (dBm)	ERP (mW)	Polarity	Comments Amps
1673.04	-72.3	31.0	0	7.3	-13	-34.1	0.0004	V	
2509.56	-58.3	35.5	33	8.0	-13	-47.9	0.0000	V	
3346.08	-75.3	39.8	32.7	8.0	-13	-60.2	0.0000	V	
4182.60	-72.3	45.3	33.2	8.2	-13	-52.0	0.0000	V	
5019.12	-77.3	41.3	32.7	8.2	-13	-60.5	0.0000	V	
5855.64	-81.3	39.8	31.8	9.3	-13	-64.0	0.0000	V	Noise floor
6692.16	-79.7	41.3	31.6	9.4	-13	-60.6	0.0000	V	Noise floor
7528.68	-81.2	41.8	32.5	9.2	-13	-62.7	0.0000	V	Noise floor
8365.20	-80.0	42.8	33.4	9.1	-13	-61.5	0.0000	V	Noise floor
1673.04	-81.0	33.0	0	7.3	-13	-40.8	0.0001	H	
2509.56	-55.2	35.5	33	8.0	-13	-44.8	0.0000	H	
3346.08	-73.5	36.3	32.7	8.0	-13	-61.9	0.0000	H	
4182.60	-72.7	34.8	33.2	8.2	-13	-62.9	0.0000	H	
5019.12	-79.5	38.3	32.7	8.2	-13	-65.7	0.0000	H	Noise floor
5855.64	-80.3	37.8	31.8	9.3	-13	-65.0	0.0000	H	Noise floor
6692.16	-80.8	39.2	31.6	9.4	-13	-63.9	0.0000	H	Noise floor
7528.68	-81.8	41.5	32.5	9.2	-13	-63.7	0.0000	H	Noise floor
8365.20	-80.8	42.5	33.4	9.1	-13	-62.6	0.0000	H	Noise floor

Notes: _____



Test & Certification Center (TCC) - Dallas

FCC ID: GMLRH-41
Test Report #: 03-RF-0142.002

August 28, 2003

Ver 1.0

Cellular Band, TDMA 800, Channel 384

Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)	Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	Limit (dBm)	ERP (dBm)	ERP (mW)	Polarity	Comments TDMA
1673.04	-66.3	31.0	0	7.3	-13	-28.1	0.0016	V	
2509.56	-51.8	35.5	33	8.0	-13	-41.4	0.0001	V	
3346.08	-69.3	39.8	32.7	8.0	-13	-54.2	0.0000	V	
4182.60	-67.0	45.3	33.2	8.2	-13	-46.7	0.0000	V	
5019.12	-73.2	41.3	32.7	8.2	-13	-56.4	0.0000	V	
5855.64	-77.7	39.8	31.8	9.3	-13	-60.4	0.0000	V	
6692.16	-80.3	41.3	31.6	9.4	-13	-61.2	0.0000	V	Noise floor
7528.68	-81.3	41.8	32.5	9.2	-13	-62.8	0.0000	V	Noise floor
8365.20	-80.2	42.8	33.4	9.1	-13	-61.7	0.0000	V	Noise floor
1673.04	-79.8	33.0	0	7.3	-13	-39.6	0.0001	H	
2509.56	-48.2	35.5	33	8.0	-13	-37.8	0.0002	H	
3346.08	-70.0	36.3	32.7	8.0	-13	-58.4	0.0000	H	
4182.60	-65.5	34.8	33.2	8.2	-13	-55.7	0.0000	H	
5019.12	-76.5	38.3	32.7	8.2	-13	-62.7	0.0000	H	
5855.64	-76.3	37.8	31.8	9.3	-13	-61.0	0.0000	H	
6692.16	-79.2	39.2	31.6	9.4	-13	-62.3	0.0000	H	
7528.68	-80.7	41.5	32.5	9.2	-13	-62.6	0.0000	H	Noise floor
8365.20	-77.7	42.5	33.4	9.1	-13	-59.5	0.0000	H	

Notes: _____

Test & Certification Center (TCC) - Dallas
 FCC ID: GMLRH-41
 Test Report #: 03-RF-0142.002
 August 28, 2003

Ver 1.0

PCS Band, TDMA 1900, Channel 999

Test Technician / Engineer	J. Love,	
Date of Measurement	12-Aug-03 to - 13Aug-03	
Temperature / Humidity	23 to 24 °C	38 to 54 %RH
Test Result	Complies with FCC 2.1053	

Tuned Frequency (MHz)	Frequency Max (MHz)	PK EMI (dBm) Horizontal	PK EMI (dBm) Vertical	FCC Limit (dBm)
1880	3760	-29	-24.1	-13
1880	5640	-23	-21	-13
1880	7520	-37	-21	-13
1880	9400	-35	-36	-13
1880	11280	-34	-34	-13
1880	13160	-30	-33	-13
1880	15040	-35	-34	-13
1880	16920	-29	-29	-13
1880	18800	-24	-24	-13

9.4 Measurement Uncertainty

The measurement uncertainty for this test is +/- 5.2dB for 30-300MHz; +/- 5.2dB for 300-1000MHz, +/- 5.6dB for 1-6GHz and +/-6.8 for 6-18GHz.

10. FREQUENCY STABILITY (TEMPERATURE VARIATION)

Specification: FCC Part 2.1055(a)(1)(b), 24.235

10.1 Setup

The EUT was connected to the base station simulator to measure the RF power output.

10.2 Pass/Fail Criteria

Not Applicable

10.3 Detailed Test Results

Test Not Performed

11. FREQUENCY STABILITY (VOLTAGE VARIATION)

Specification: FCC Part 2.1055(d)(1)(2), 24.235

11.1 Setup

The EUT was connected to the base station simulator to measure the RF power output.

11.2 Pass/Fail Criteria

Not Applicable

11.3 Detailed Test Results

Test Not Performed

Test & Certification Center (TCC) - Dallas

FCC ID: GMLRH-41

Test Report #: 03-RF-0142.002

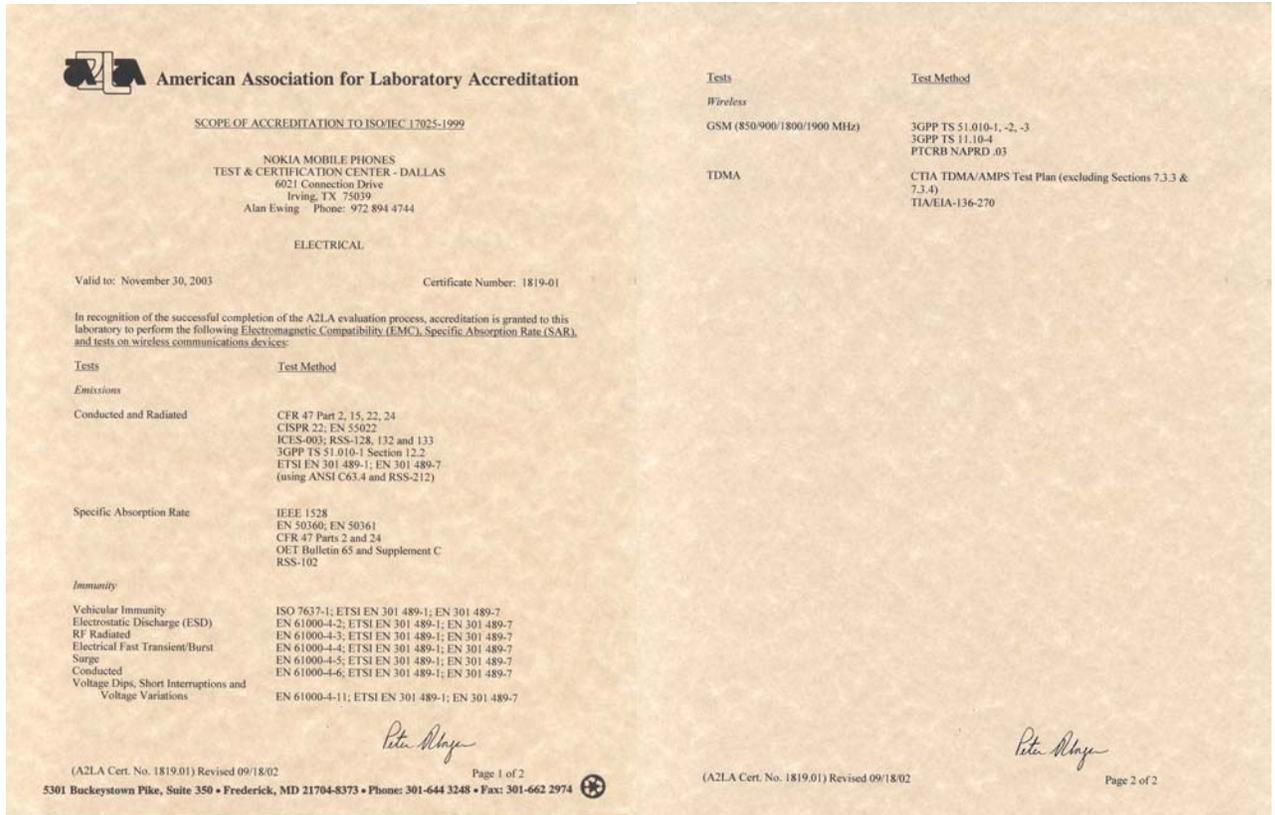
August 28, 2003

Ver 1.0

APPENDIX

TCC-Dallas is accredited by the American Association for Laboratory Accreditation (A2LA) as shown in the scope below:





“This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined to be in accordance with the laboratory’s terms of accreditation unless stated otherwise in the report.”

Should this report contain any data for tests for which we are not accredited, such data would not be covered by this laboratory’s A2LA accreditation.