Nemko Test Report:	5L0548RUS2
Applicant:	Nokia, Inc.
Equipment Under Test: (E.U.T.)	6265
FCC ID:	QMNRM-66
In Accordance With:	**FCC Part 22, Subpart H** Cellular Band Subscriber Services and **FCC Part 24, Subpart E** Broadband PCS Subscriber Station
Tested By:	Nemko USA Inc. 802 N. Kealy Lewisville, TX 75057-3136
Authorized By:	 Tom Tidwell, Frontline Manager
Date:	20 December, 2005

NVLAP LAB CODE: 100426-0
Accreditation valid 1/1/05 to 12/31/05

Table of Contents

Section 1. Summary of Test Results 3

Section 2. General Equipment Specification 5

Section 3. Field Strength of Spurious 7

Section 4. Test Equipment List 13

ANNEX A - TEST METHODOLOGIES 14

ANNEX B - TEST DIAGRAMS 16

Section 1. Summary of Test Results

Manufacturer: Nokia, Inc.

Model No.: 6265

Serial No.: 04414181553

Type: RM-66

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 22, Subpart H and FCC Part 24, Subpart E.

☐ New Submission ☐ Production Unit

☒ Class II Permissive Change ☒ Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.
See " Summary of Test Data".

Summary Of Test Data

Part 22

NAME OF TEST	PARA. NO.	RESULT
RF Power Output	22.913(a)(2)	Not tested
Audio Frequency Response	2.1047	Not tested
Audio Low Pass Filter Response	2.1047	Not tested
Modulation Limiting	2.1047	Not tested
Occupied Bandwidth	2.1049	Not tested
Spurious Emissions at Antenna Terminals	22.917(a)	Not tested
Field Strength of Spurious Emissions	22.917(a)	Complies
Frequency Stability	22.355	Not tested

Part 24

NAME OF TEST	PARA. NO.	RESULT
RF Power Output	24.232	Not tested
Occupied Bandwidth	24.238	Not tested
Spurious Emissions at Antenna Terminals	24.238(a)	Not tested
Field Strength of Spurious Emissions	24.238(a)	Complies
Frequency Stability	24.235	Not tested

Footnotes:

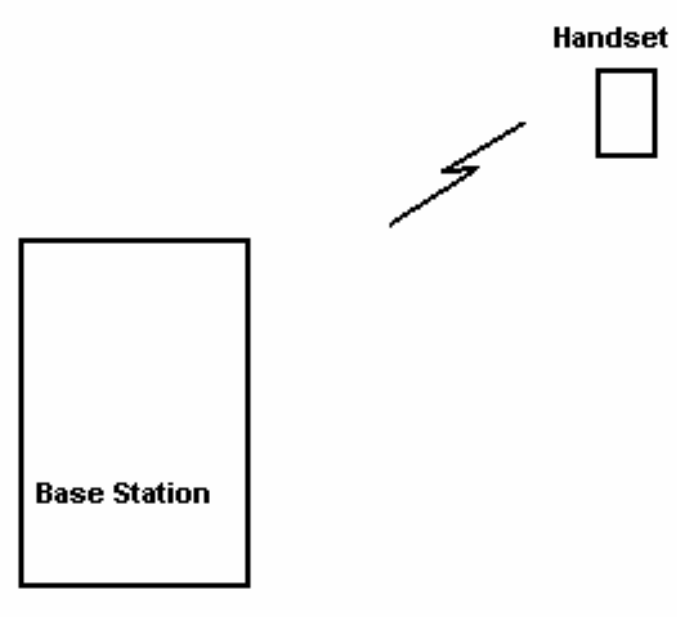
Section 2. General Equipment Specification

Frequency Bands:	824.04 to 848.97 MHz AMPS 824.70 to 847.31 CDMA 800 1851.25 to 1908.75 MHz PCS
Type of Modulation and Designator:	**CDMA (F9W)** ☒ **AMPS (F8W & F1D)** ☒ **NADC (DXW)** ☐
Necessary Bandwidth:	40 kHz AMPS 1.25 MHz CDMA
Emission designator(s):	40KF8W 40KF1D 1M25F9W
Output Impedance:	50 ohms

Operational Description

This handset is tri-mode device operating at 800 MHz AMPS, CDMA 800 and CDMA 1900 modes.

System Diagram



Section 3. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious(800 MHz band)	PARA. NO.: 22.917(a)
TESTED BY: David Light	DATE: 15 December 2005

Test Results: Complies.

800 MHz band: The worst-case emission is –28.7 dBm ERP at 1673.04 MHz. This emission was detected with the phone operating in AMPS mode at 836.52 MHz.

Test Data: See attached table.

Orientation of device under test: The device under test was tested on three orthogonal axis in order to determine worst-case orientation. The worst-case orientation was found to be in the upright position.

Test Data - Radiated Emissions

Field Strength of Spurious Emissions

Page 1 of 1 Complete

Job No.: 5L0548 Date: 12/15/05 Preliminary

Specification: Part22 Temperature(°C): 22

Tested By: David Light Relative Humidity(%) 45

E.U.T.: Tri-mode / BT handset

Configuration: CDMA800

Sample No: 1

Location: AC 3 RBW: 1 MHz Measurement

Detector Type: Peak VBW: 500 kHz Distance: 3 m

Test Equipment Used

Antenna: 993 Directional Coupler:

Pre-Amp: 1016 Cable #1: 1484

Filter: 1481 Cable #2: 1485

Receiver: 1464 Cable #3:

Attenuator #1 Cable #4:

Attenuator #2: Mixer:

Additional equipment used:

Measurement Uncertainty: +/-1.7 dB

Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	Limit (dBm)	ERP (dBm)	ERP (mW)	Polarity	Comments
1673.04	-74.0	31.1		0	6.2	-13	-36.7	0.0002	V	Noise floor
2509.56	-62.3	36.9		32.8	7.1	-13	-51.1	0.0000	V	Noise floor
3346.08	-63.8	39.6		32.7	7.4	-13	-49.5	0.0000	V	Noise floor
4182.6	-64.2	45.8		32.3	7.9	-13	-42.8	0.0001	V	Noise floor
5019.12	-64.8	42.0		32.6	8.5	-13	-46.9	0.0000	V	Noise floor
5855.64	-66.0	40.4		31	8.4	-13	-48.2	0.0000	V	Noise floor
6692.16	-67.0	41.1		31.1	9.6	-13	-47.4	0.0000	V	Noise floor
7528.68	-66.7	41.6		32.6	9.0	-13	-48.7	0.0000	V	Noise floor
8365.2	-66.7	42.4		33.2	9.5	-13	-48.0	0.0000	V	Noise floor
1673.04	-74.0	33.5		0	6.2	-13	-34.3	0.0004	H	Noise floor
2509.56	-62.3	33.6		32.8	7.1	-13	-54.4	0.0000	H	Noise floor
3346.08	-63.8	34.4		32.7	7.4	-13	-54.7	0.0000	H	Noise floor
4182.6	-64.2	34.9		32.3	7.9	-13	-53.7	0.0000	H	Noise floor
5019.12	-64.8	38.1		32.6	8.5	-13	-50.8	0.0000	H	Noise floor
5855.64	-66.0	36.6		31	8.4	-13	-52.0	0.0000	H	Noise floor
6692.16	-67.0	38.1		31.1	9.6	-13	-50.4	0.0000	H	Noise floor
7528.68	-66.7	40.4		32.6	9.0	-13	-49.9	0.0000	H	Noise floor
8365.2	-66.7	42.1		33.2	9.5	-13	-48.3	0.0000	H	Noise floor

Notes:

The spectrum was searched to the 10th harmonic of carrier. No emissions were detected.

Test Data - Radiated Emissions

Field Strength of Spurious Emissions

Page 1 of 1 Complete x

Job No.: 5L0548 Date: 12/15/05 Preliminary

Specification: Part22 Temperature(°C): 22

Tested By: David Light Relative Humidity(%) 45

E.U.T.: Tri-mode / BT handset

Configuration: AMPS

Sample No: 1

Location: AC 3 RBW: 1 MHz Measurement

Detector Type: Peak VBW: 1 MHz Distance: 3 m

Test Equipment Used

Antenna: 993 Directional Coupler:

Pre-Amp: 1016 Cable #1: 1484

Filter: 1481 Cable #2: 1485

Receiver: 1464 Cable #3:

Attenuator #1 Cable #4:

Attenuator #2: Mixer:

Additional equipment used:

Measurement Uncertainty: +/-1.7 dB

Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	Limit (dBm)	ERP (dBm)	ERP (mW)	Polarity	Comments
1673.04	-66.0	31.1		0	6.2	-13	-28.7	0.0014	V	
2509.56	-60.0	36.9		32.8	7.1	-13	-48.8	0.0000	V	
3346.08	-61.3	39.6		32.7	7.4	-13	-47.0	0.0000	V	
4182.6	-62.1	45.8		32.3	7.9	-13	-40.7	0.0001	V	
5019.12	-64.8	42.0		32.6	8.5	-13	-46.9	0.0000	V	Noise floor
5855.64	-66.0	40.4		31	8.4	-13	-48.2	0.0000	V	Noise floor
6692.16	-67.0	41.1		31.1	9.6	-13	-47.4	0.0000	V	Noise floor
7528.68	-66.7	41.6		32.6	9.0	-13	-48.7	0.0000	V	Noise floor
8365.2	-66.7	42.4		33.2	9.5	-13	-48.0	0.0000	V	Noise floor
1673.04	-70.0	33.5		0	6.2	-13	-30.3	0.0009	H	
2509.56	-59.5	33.6		32.8	7.1	-13	-51.6	0.0000	H	
3346.08	-61.3	34.4		32.7	7.4	-13	-52.2	0.0000	H	
4182.6	-65.0	34.9		32.3	7.9	-13	-54.5	0.0000	H	Noise floor
5019.12	-64.8	38.1		32.6	8.5	-13	-50.8	0.0000	H	Noise floor
5855.64	-66.0	36.6		31	8.4	-13	-52.0	0.0000	H	Noise floor
6692.16	-67.0	38.1		31.1	9.6	-13	-50.4	0.0000	H	Noise floor
7528.68	-66.7	40.4		32.6	9.0	-13	-49.9	0.0000	H	Noise floor
8365.2	-66.7	42.1		33.2	9.5	-13	-48.3	0.0000	H	Noise floor

Notes:

The spectrum was searched to the 10th harmonic of carrier.

NAME OF TEST: Field Strength of Spurious Emissions (PCS 1900 Band)	PARA. NO.: 24.238(a)
TESTED BY: David Light	DATE: 15 December 2005

Test Results: Complies.

PCS 1900 Band: The worst-case emission (noise floor) is –24.4 dBm EIRP at 3760 MHz. This emission was detected with the phone operating in PCS 1900 mode at 1880 MHz.

Measurement Data: **Refer to attached data**

Orientation of device under test: The device under test was tested on three orthogonal axis in order to determine worst-case orientation. The worst-case orientation was found to be in the upright position.

Test Data - Radiated Emissions

Field Strength of Spurious Emissions

Page 1 of 1 Complete x

Job No.: 5L0548 Date: 12/15/05 Preliminary

Specification: Part24 Temperature(°C): 22

Tested By: David Light Relative Humidity(%) 45

E.U.T.: Tri-mode / BT handset

Configuration: CDMA1900

Sample No: 1

Location: AC 3 RBW: 1 MHz Measurement

Detector Type: Peak VBW: 1 MHz Distance: 3 m

Test Equipment Used

Antenna: 993 Directional Coupler:

Pre-Amp: 1016 Cable #1: 1484

Filter: 1482 Cable #2: 1485

Receiver: 1464 Cable #3:

Attenuator #1 Cable #4:

Attenuator #2: Mixer:

Additional equipment used:

Measurement Uncertainty: +/-1.7 dB

Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBi)	Limit (dBm)	EIRP (dBm)	EIRP (mW)	Polarity	Comments
3760	-77.0	42.5		0	10.2		-24.4	0.0037	V	Noise floor
5640	-65.8	40.4		31.9	10.6		-46.7	0.0000	V	Noise floor
7520	-65.3	41.6		32.6	11.2		-45.1	0.0000	V	Noise floor
9400	-65.5	41.2		35.6	12.0		-47.9	0.0000	V	Noise floor
11280	-63.7	43.8		35.7	11.7		-43.9	0.0000	V	Noise floor
13160	-66.0	45.7		33.3	12.6		-41.0	0.0001	V	Noise floor
15040	-66.7	46.4		32.1	13.2		-39.2	0.0001	V	Noise floor
16920	-64.6	46.1		33.6	15.8		-36.3	0.0002	V	Noise floor
3760	-77.0	33.9		0	10.2		-33.0	0.0005	H	Noise floor
5640	-65.8	36.6		31.9	10.6		-50.5	0.0000	H	Noise floor
7520	-65.3	40.4		32.6	11.2		-46.3	0.0000	H	Noise floor
9400	-65.5	41.6		35.6	12.0		-47.5	0.0000	H	Noise floor
11280	-63.7	45.7		35.7	11.7		-42.0	0.0001	H	Noise floor
13160	-66.0	49.1		33.3	12.6		-37.6	0.0002	H	Noise floor
15040	-66.7	48.2		32.1	13.2		-37.4	0.0002	H	Noise floor
16920	-64.6	47.2		33.6	15.8		-35.2	0.0003	H	Noise floor

Notes:

The spectrum was searched to the 10th harmonic of carrier. No emissions were detected.

Photographs of Test Setup

Section 4. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
760	Antenna biconical	Electro Metrics MFC-25	477	08/04/05	08/04/06
791	PREAMP, 25dB	ICC LNA25	398	11/12/05	11/12/06
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	11/12/05	11/12/06
1484	Cable	Storm PR90-010-072	N/A	08/26/05	08/26/06
1485	Cable	Storm PR90-010-216	N/A	08/26/05	08/26/06
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/01/05	08/02/07
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
1311	ANTENNA, LOG PERIODIC	EMCO 3146	1753	08/02/05	08/02/06
1482	Band Pass Filter	K & L 11SH10-4000/T12000-0/0	2	Cal B4 Use	N/A
1481	Microwave Highpass Filter	K & L 3DH1-2000/T8000-0/0	4	Cal B4 Use	N/A
	CDMA Mobile Station Test Set	HP 8924C	US38283285	07/05/05	07/05/07
	PCS Extender	HP 83236B	3711J04715	07/05/05	07/05/07

ANNEX A - TEST METHODOLOGIES

NAME OF TEST: Field Strength of Spurious Radiation	**PARA. NO.: 2.1053**

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least 43 + 10 log (P) dB. *This level equates to –13 dBm absolute power.*

Test Method: TIA/EIA-603-1992

The antenna substitution method was used to determine the equivalent radiated power at spurious frequencies. The spurious emissions were measured at a distance of 3 meters. The EUT was then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna was fed with a signal at the spurious frequency. The level of the signal was adjusted to repeat the previously measured level. The resulting eirp is the signal level fed to the reference antenna corrected for gain referenced to an isotropic radiator. ERP is the uncorrected value.

.

ANNEX B - TEST DIAGRAMS

Para. No. 2.993 - Field Strength of Spurious Radiation