HCT CO., LTD.



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EMI CERTIFICATION REPORT

Nokia, Inc.

12278 Scripps Summit Drive, San Diego, CA 92131

Date of Issue: April 30, 2009

Test Report No.: HCT-EF09-0319-2

Test Site: HCT CO., LTD. HCT FRN: 0005-8664-21

FCC ID:

IC:

QMNRM-526 661X-RM526

Classification / Standard(s): FCC PART 15 Subpart B / CISPR 22 Class B

ICES-003 Issue 4 February 2004, RSS-Gen Issue 2_June 2007,

RSS-129 Issue 2 September 25. 1999, RSS-133 Issue 5_February 2009

Equipment type

: Dual-Band CDMA/EV-DO Phone with BT2.1+EDR

Trade name / Model(s)

: Nokia, Inc. / RM-526

Port / Connector(s)

: USB data port / Headset port

FCC listing No

: 90661

IC recognition No

: IC 5944A-1

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003. (See test report if any modifications were made for compliance)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862.

Report prepared by : Yong Hyun Lee

Test Engineer of EMC Tech. Part

Approved by : Nam Wook Kang

Manager of EMC Tech. Part

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Test Report Revision History

Test report NO.	Data	Description
HCT-EF09-0319-1	April 16, 2009	Separated the certification report. and verification report.
HCT-EF09-0319-2	April 30, 2009	Version control update. Change from "IC ID" to "IC". Change the operating mode. Add the version for IC rule. Change the Conducted test Configuration Section 2 Change the test equipment list Section 7



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ATTACHMENT: TEST SETUP PHOTOGRAPHS



1. GENERAL INFORMATION

1.1 Product description

The Nokia, Inc. RM-526, Dual-Band CDMA/EV-DO Phone with BT2.1+EDR.

Its basic purpose is used for communications. It transmits from CDMA 850 (824.70 N世 to 848.31 N世), PCS 1 900 (1851.25 N世 to 1908.75 N世), Bluetooth (2 402 N世 to 2 480 N世) and receives from CDMA 850 (869.70 N世 to 893.31 N世), PCS 1 900 (1931.25 N世 to 1988.75 N世), Bluetooth (2 402 N世 to 2 480 N世).

Model	RM-526
FCC	QMNRM-526
IC	661X-RM526
E.U.T NO	A00000016703A5
E.U.T type	Dual-Band CDMA/EV-DO Phone with BT2.1+EDR
HW Version	3000
SW Version	VN_2040T13_VZW_108
TX frequency	824.70 Mb to 848.31 Mb (CDMA 850) 1851.25 Mb to 1908.75 Mb (PCS 1 900) 2 402 Mb to 2 480 Mb (Bluetooth)
RX frequency	869.70 MHz to 893.31 MHz (CDMA 850) 1931.25 MHz to 1988.75 MHz (PCS 1 900) 2 402 MHz to 2 480 MHz (Bluetooth)
Channel	Middle: 384 (CDMA 850) Middle: 600 (PCS 1 900)

1.2 Related submittal(s) / Grant(s)

Original submittal only.



1.3 Tested system details

All equipment descriptions used in the tested system (including inserted cards) are:

Device type	Manufacturer	Model number/ Part number	FCC ID / DoC	Connected to
Dual-Band CDMA /EV-DO Phone with BT2.1+EDR	Nokia	RM-526	QMNRM-526	Laptop, Headset
Laptop	TOSHIBA	PSMA2K-01D002	DoC	E.U.T, TA
Laptop adaptor	DELTA	SADP-65KB B	-	Laptop
Headset	-	HS-49	-	E.U.T
Mouse	MICROSOFT	Intellimouse optical USB and PS/2 compatible	DoC	Laptop
USB cable	-	CA-101	-	E.U.T, Laptop

1.4 Cable description

Product name	Port	Power cord shielded (Y/N)	I/O cable shielded (Y/N)	Length (M)
Dual-Band CDMA /EV-DO Phone with	USB data	Y	Y	(P,D)1.2
BT2.1+EDR	Headset jack	-	N	(D)1.8
Laptop	USB (Mouse)	-	Y	(D)1.8

 $^{^{*}}$ The marked "(D)" means the Data Cable and "(P)" means the Power Cable.

1.5 Noise suppression parts on cable. (I/O cable)

Product name	Port	Ferrite bead (Y/N)	Location	Metal hood (Y/N)	Location
Dual-Band CDMA /EV-DO Phone with	USB data	N	1	Y	Both end
BT2.1+EDR	Headset jack	N	-	Y	E.U.T end
Laptop	USB (Mouse)	Y	Laptop end	Y	Laptop end



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1.6 Test methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4/2003. Radiated testing was performed at an antenna to E.U.T distance of 3 m

1.7 Test facility

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-ri, Hobup-myun, Icheon-si, Kyoungki-do, 467-701, Korea. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the commission and accepted dated July 6, 2006(Registration Number: 90661)

1.8 Frequency range of radiated measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (Mb)	Upper frequency of measurement range (順2)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



2. SYSTEM TEST CONFIGURATION

2.1 Configuration of test system

Power Line Conducted test : Laptop adaptor was connected to LISN.

Preliminary Power Line Conducted Emission tests were performed by using the procedure in ANSI C63.4/2003 7.2.3 to determine the

worst operating conditions.

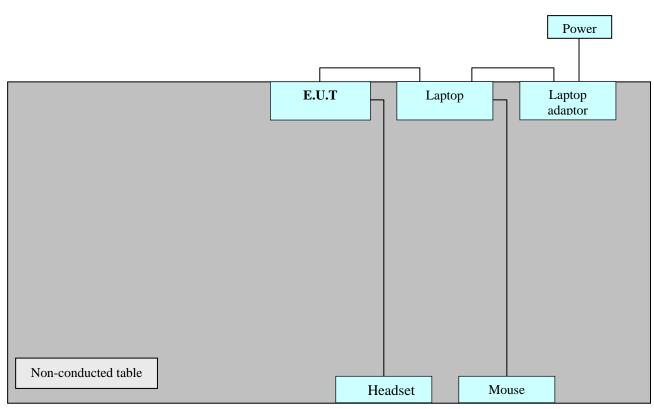
Radiated Emission test : Preliminary Radiated Emission tests were performed by using the

procedure in ANSI C63.4/2003 8.3.1.1 to determine the worst

operating condition. Final Radiated Emission tests were performed

at 3 m open area test site.

[Configuration of tested system]



Power Line: 110 VAC



3. PRELIMINARY TEST

3.1 Conducted Emission test

During preliminary tests, the following operating mode was investigated.

- Data communication mode
 - : Phone was tested with a laptop connected via USB interface port. After QPST software installed on the computer to be able to communicate with the phone, it was tested by continuously sending a MP3 files to the phone. Phone memory used the internal and external memory.

3. 2 Radiated Emission test

During preliminary test, the following operation mode was investigated.

- Data communication mode
 - : Phone was tested with a laptop connected via USB interface port. After QPST software installed on the computer to be able to communicate with the phone, it was tested by continuously sending a MP3 files to the phone. Phone memory used the internal and external memory.



4. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission test

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

Limit apply to : CISPR 22 Class B
Result : Passed by 8.9 dB

Operating condition : Data communication mode
Battery : Standard battery (BL-4C)

Detector : Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)

Temperature : 9.2 °C Humidity level : 31.3 %

Test date : March 26, 2009

Power 1	Line Conducted E	nissions	CISPR 22 Class B			
Frequency (MHz)	Amplitude (dBμV)	Conductor	Result	Limit (dBµV)	Margin (dB)	
0.2001	53.8	НОТ	Quasi-Peak	64.0	9.8	
0.2001	44.7	НОТ	Average	54.0	8.9	
0.2001	52.7	NEUTRAL	Quasi-Peak	64.0	10.9	
4.9680	36.9	NEUTRAL	Average	46.0	9.1	



FCC ID: QMNRM-526, IC: 661X-RM526 Report No.: HCT-EF09-0319-2

Data: April 30, 2009

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RM-526 EUT: Manufacturer: Nokia

Operating Condition: Data communication Mode

H

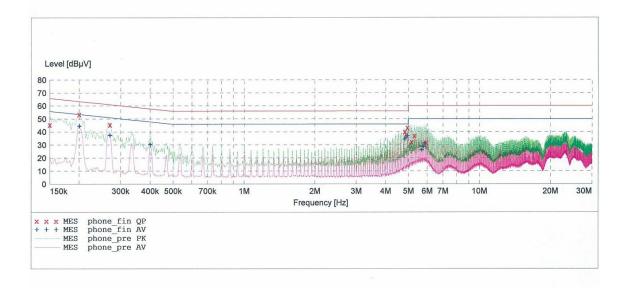
SHIELD ROOM Test Site: Operator: YH, LEE

Test Specification: CISPR 22 CLASS B

Comment:

SCAN TABLE: "CISPR 22 Voltage"

Short Desc	ription:	CI	SPR 22 Vol	tage		
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "phone fin QP"

3/26/2009	8:11	PM						
Frequen	су	Level	Transd	Limit	Margin	Line	PE	
M	Hz	dBµV	dB	dBµV	dB			
0.1501	00	45.70	10.1	66	20.3			
0.2001	00	53.80	10.1	64	9.8			
0.2701	00	45.80	10.1	61	15.3			
4.8200	00	40.30	10.7	56	15.7			
4.8840	00	38.30	10.7	56	17.7			
4.9520	00	43.50	10.7	56	12.5	·		
5.1520	00	32.40	10.7	60	27.6			
5.2880	00	37.30	10.7	60	22.7			
5.9560	00	32.10	10.8	60	27.9			

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MEASUREMENT RESULT: "phone fin AV"

					11PM	3/26/2009 8:1
PE	Line	Margin	Limit	Transd	Level	Frequency
		dB	dBμV	dB	dBµV	MHz
		8.9	54	10.1	44.70	0.200100
		13.5	51	10.1	37.60	0.270100
		17.3	48	10.1	30.60	0.400100
		11.4	46	10.7	34.60	4.816000
		10.2	46	10.7	35.80	4.884000
		8.9	46	10.7	37.10	4.952000
		23.7	50	10.8	26.30	5.688000
		21.2	50	10.8	28.80	5.756000
		18.5	50	10.8	31.50	5.824000

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FCC ID: QMNRM-526, IC: 661X-RM526 Report No.: HCT-EF09-0319-2

Data: April 30, 2009

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EMC TEST LAB.

EUT: RM-526 Nokia Manufacturer:

Operating Condition: Data communication Mode

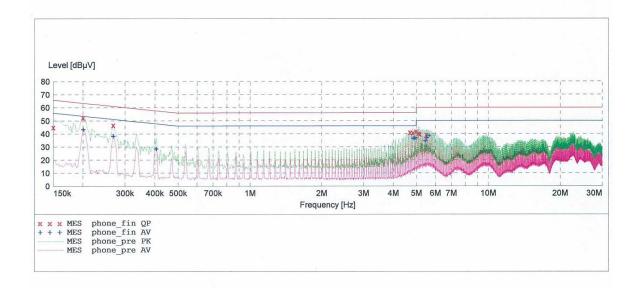
Test Site: SHIELD ROOM Operator: YH, LEE

Test Specification: CISPR 22 CLASS B

Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Desc	ription:		CISPR 22 Vol	tage		
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "phone fin QP"

3/26/2009	8:15	PM					
Frequen	су	Level	Transd	Limit	Margin	Line	PE
M	Hz	dBµV	dB	dΒμV	dB		
0.1501	00	45.20	10.1	66	20.8		
0.2001	00	52.70	10.1	64	10.9		
0.2676	00	46.80	10.1	61	14.4		
4.6960	00	41.20	10.6	56	14.8		
4.8280	00	40.70	10.7	56	15.3		
4.9680	00	42.00	10.7	56	14.0		
5.1000	00	40.60	10.7	60	19.4		
5.1680	00	40.10	10.7	60	19.9		
5.5040	00	39.50	10.7	60	20.5		

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Report No.: HCT-EF09-0319-2 FCC ID: QMNRM-526, IC: 661X-RM526

Data: April 30, 2009

MEASUREMENT RE	SULT: "pl	one fin AV	
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3/26/2009 8:1	5PM					
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dΒμV	dB	dBµV	dB		
0.200100	43.40	10.1	54	10.3		
0.267600	38.40	10.1	51	12.8		
0.405100	28.60	10.1	48	19.1		
4.832000	36.60	10.7	46	9.4		
4.900000	36.70	10.7	46	9.3		
4.968000	36.90	10.7	46	9.1		
5.436000	34.60	10.7	50	15.4		
5.504000	36.80	10.7	50	13.2		
5.640000	38.80	10.8	50	11.2		

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The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

Limit apply to : CISPR 22 Class B
Result : Passed by 13.0 dB

Operating condition : Data communication mode Battery : Extended battery (BL-10C)

Detector : Quasi-Peak, Average (6 dB Bandwidth: 9 klb)

Temperature : 15.0 °C Humidity level : 31.5 %

Test date : April 16, 2009

Power 1	Line Conducted E	nissions	CISPR 22 Class B				
Frequency (MHz)	$(dB\mu V)$ Conductor Result		Limit (dBµV)	Margin (dB)			
4.9240	40.7	НОТ	Quasi-Peak	56.0	15.3		
0.2026	40.5	НОТ	Average	54.0	13.0		
4.9220 42.2		NEUTRAL	Quasi-Peak	56.0	13.8		
0.2026 40.3		NEUTRAL	Average	54.0	13.2		



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EMC TEST LAB.

EUT: RM-526 (HW Version: 3000)

Manufacturer: NOKIA

Operating Condition: DATA COMMUNICATION Mode

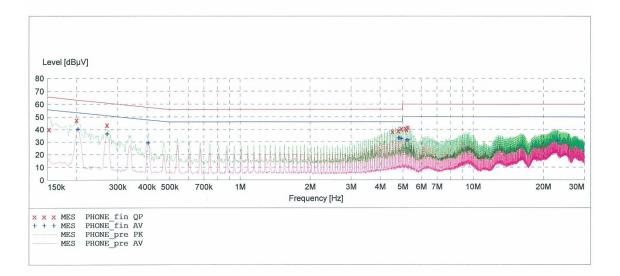
Test Site: SHIELD ROOM

Operator: YH, LEE
Test Specification: CISPR 22 CLASS B

Comment:

SCAN TABLE: "CISPR 22 Voltage"

Short Desc:	ription:	CI	SPR 22 Vol	tage		
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE fin QP"

4/16/2009 Frequen	11:12 cy Hz	2AM Level dBµV	Transd dB	Limit dBuV	Margin dB	Line	PE
11	112	αυμν	QD.	агр.	QD.		
0.1526	00	40.30	10.1	66	25.6		
0.2001	00	47.60	10.1	64	16.0		
0.2701	00	43.70	10.1	61	17.4		
4.5160	00	38.40	10.6	56	17.6		
4.7840	00	39.00	10.6	56	17.0		
4.9240	00	40.70	10.7	56	15.3		
5.1280	00	41.10	10.7	60	18.9		
5.1920	00	40.00	10.7	60	20.0		
5.2600	00	41.70	10.7	60	18.3		

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MEASUREMENT	RESULT:	"PHONE	fin	AV"
		_		

4/	16/2009 11: Frequency MHz	12AM Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
	0.202600	40.50	10.1	54	13.0		
	0.270100	36.60	10.1	51	14.5		
	0.405100	29.60	10.1	48	18.1		
	4.788000	33.20	10.6	46	12.8		
	4.856000	33.30	10.7	46	12.7		
	4.924000	32.90	10.7	46	13.1		
	5.192000	31.70	10.7	50	18.3		
	5.260000	31.90	10.7	50	18.1		
	22.928000	31.30	12.7	50	18.7		



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EUT: RM-526 (HW Version: 3000)

Manufacturer: NOKIA

Operating Condition: DATA COMMUNICATION Mode

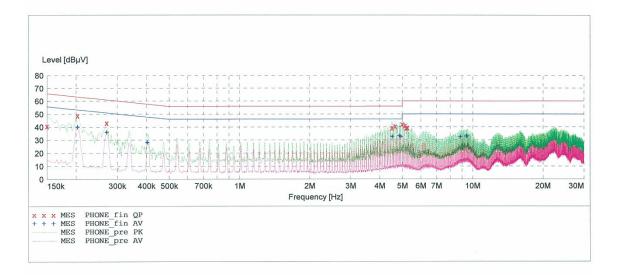
Test Site: SHIELD ROOM Operator: YH, LEE

Test Specification: CISPR 22 CLASS B

Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Desc:	ription:	CI	SPR 22 Vol	tage		
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE fin QP"

4/16/2009	11:16AM					
Frequenc	cy Level	Transd	Limit	Margin	Line	PE
MI	Hz dBµV	7 dB	dΒμV	dB		
0.15010	00 40.90	10.1	66	25.1		
0.2026	00 48.90	10.1	64	14.6		
0.2701	00 43.20	10.1	61	17.9		
4.5160	00 39.20	10.6	56	16.8		
4.6520	00 40.60	10.6	56	15.4		
4.9920	00 42.20	10.7	56	13.8		
5.1280	00 41.20	10.7	60	18.8		
5.1960	00 39.20	10.7	60	20.8		
5.2600	00 39.60	10.7	60	20.4		

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MEASUREMENT RESULT: "PHONE fin AV"

4/16/2009	11:16	5AM					
Frequen	су	Level	Transd	Limit	Margin	Line	PE
M	Hz	dΒμV	dB	dBµV	dB		
0.2026	00	40.30	10.1	54	13.2		
0.2701	00	36.30	10.1	51	14.8		
0.4026	00	28.40	10.1	48	19.4		
4.5200	00	32.80	10.6	46	13.2		
4.8560	00	33.50	10.7	46	12.5		
4.9240	00	32.80	10.7	46	13.2		
8.8360	00	32.70	11.1	50	17.3		
9.3760	00	33.20	11.1	50	16.8		
9.4440	00	33.20	11.1	50	16.8		

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4.2 Radiated Emission test

The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

Limit apply to : FCC PART 15 Subpart B

Result : Passed by 8.4 dB

Operating condition : Data communication mode
Battery : Standard battery (BL-4C)

Detector : Quasi-Peak (6 dB Bandwidth: 120 kHz)

Temperature : 9.2 °C Humidity level : 31.3 %

Test date : March 26, 2009

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μV	dB /m	dB	(H/V)	dB μV/m	dB μV/m	dB
144.0	17.7	12.5	2.8	Н	33.0	43.5	10.5
480.0	15.4	17.0	5.2	Н	37.6	46.0	8.4
480.0	13.4	17.0	5.2	V	35.6	46.0	10.4
499.7	8.7	17.3	5.3	Н	31.3	46.0	14.7

Note)

For measurement over 1 GHz, noise level was more than 10 dB below the limit.



The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

Limit apply to : FCC PART 15 Subpart B

Result : Passed by 9.0 dB

Operating condition : Data communication mode Battery : Extended battery (BL-10C)

Detector : Quasi-Peak (6 dB Bandwidth: 120 kHz)

Temperature : 15.0 °C Humidity level : 31.5 %

Test date : April 16, 2009

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μV	dB /m	dB	(H/V)	dB μV/m	dB μV/m	dB
144.0	16.4	12.5	2.8	Н	31.7	43.5	11.8
480.0	14.8	17.0	5.2	Н	37.0	46.0	9.0
480.0	12.6	17.0	5.2	V	34.8	46.0	11.2
499.7	8.9	17.3	5.3	Н	31.5	46.0	14.5

Note)

For measurement over 1 GHz, noise level was more than 10 dB below the limit.



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Data: April 30, 2009

5. FIELD STRENGTH CALCULATION

The field strength is calculated by adding the antenna factor and cable factor.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF$$

Where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

Assume a receiver reading of 21.5 dB μ V is obtained. The antenna factor of 7.4 dB/m and a cable factor of 1.1 dB are added. The 30 dB μ V/m value is mathematically converted to its corresponding level in μ V/m.

$$FS = 21.5 + 7.4 + 1.1 = 30 \text{ dB}\mu\text{V/m}$$

[Radiated Emission limits]

Frequency of emission	Field strength			
(MHz)	μV/m	dBμV/m		
30 to 88	100	40.0		
88 to 216	150	43.5		
216 to 960	200	46.0		
Above 960	500	54.0		



6. SYSTEM MEASUREMENT UNCERTAINTY

For a 95 % confidence level, the measurement uncertainties for defined system.

6.1 Emissions test

■ Radiated Emissions tests: $\pm 5.6 \text{ dB } (k = 2)$ (30 MHz ~ 1 GHz)

■ Conducted Emissions tests: $\pm 3.7 \text{ dB } (k=2)$ (150 kHz ~ 30 MHz)



7. TEST EQUIPMENT

Type	<u>Manufacture</u>	Model number	Next CAL date
EMI Test Receiver	Rohde & Schwarz	ESI40	2009.10.31
EMI Test Receiver	Rohde & Schwarz	ESCI	2009.06.01
LISN	EMCO	703125	2009.05.04
Attenuator	Rohde & Schwarz	ESH3-Z2	2009.10.30
Trilog Antenna	Schwarzbeck	VULB9160	2010.12.18
Communication Antenna	TDK	LPDA-0802	N/A
Antenna Position Tower	HD	240/520/00	N/A
Base Station	Rohde & Schwarz	CMU 200	2010.02.17
Horn Antenna	Schwarzbeck	BBHA 9120D	2010.03.26
RF-Amplifier	MITEQ	AMF-6D-00101800-35.20P.PS	2010.04.25
Bluetooth Base Station	TESCOM	TC-3000A	2010.01.09



8. CONCLUSION

The data collected shows that the **Nokia, Inc. Model: RM-526, Dual-Band CDMA/EV-DO Phone with BT2.1+EDR. FCC: QMNRM-526, IC: 661X-RM526** complies with §15.107 and §15.109 of the FCC rules.