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# **CERTIFICATE OF COMPLIANCE** FCC Part 22 Certification

Dates of Tests: October 26 ~ 31, 2007 Test Report S/N: DR50110711C Test Site: DIGITAL EMC CO., LTD.

Model No.

**R2NSXC-1280** 

**APPLICANT** 

Epivalley CO., LTD.

Classification : Licensed Portable Transmitter worn on body (PCT)

FCC Rule Part(s) : §22(H), §2

EUT Type : CDMA USB Modem

CDMA MS Protocol Rev. Number : 6

Model name : SXC-1280

Serial number : Identical prototype
TX Frequency Range : 824.70 ~848.31 MHz
RX Frequency Range : 869.70 ~893.31 MHz

Max. RF Output Power : 0.147W ERP CDMA Cellular Band (21.67dBm)

Max. SAR Measurement : 1.07W/kg CDMA Cellular Band Body SAR

Emission Designators: : CDMA Cellular Band - 1M27F9W

Date of Issue : November 6, 2007

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### MEASUREMENT REPORT

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

# §2.1033 General Information

Applicant: Epivalley CO., LTD.

Address: Lordland EZ Tower #511, 153, Gumi-Dong, Bundang-Gu,

SEONGNAMCITY, GYUNGGI, KOREA

**Attention: Woo Won Choung** 

• FCC ID: R2NSXC-1280

Quantity: Quantity production is planned

• Emission Designators: CDMA Cellular Band - 1M27F9W

• Tx Freq. Range: 824.70 ~ 848.31 MHz (Cellular Band)

• Rx Freq. Range: 869.70 - 893.31 MHz (Cellular Band)

• Max. Power Rating: 0.147W ERP CDMA Cellular Band(21.67dBm)

• FCC Classification(s): Licensed Portable Transmitter worn on body (PCT)

• Equipment (EUT) Type: CDMA USB Modem

CDMA MS Protocol Revision Number 6

Modulation(s):
CDMA

• Frequency Tolerance:  $\pm 0.00025 \% (2.5ppm)$ 

• FCC Rule Part(s): §22(H), §2

• Dates of Tests: October  $26 \sim 31,2007$ 

Place of Tests:
 DIGITAL EMC
 Test Report S/N:
 DR50110711C

### 2.1. General Information

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.

Address: 683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080 http://www.digitalemc.com E-mail: harveysung@digitalemc.com

Tel: +82-31-321-2664 Fax: +82-31-321-1664

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competents of calibration and testing laboratory".

This laboratory is accredited by NVLAP for NVLAP Lab. Code: 200559-0.

Test operator: engineer

November 6, 2007 Won-Jung LEE

Data Name Signature

Report Reviewed By: manager

November 6, 2007 Harvey Sung

Data Name Signature

Ordering party:

Company name : Epivalley CO., LTD.

Address : Loadland EZ Tower #511, 513, Gumi-dong, Bundang-Gu,

Zipcode : 463-500

City/town : SEONGNAM-CITY, KYUNGGI

Country : KOREA

Date of order : October 24, 2007

#### 3.1 DESCRIPTION OF TESTS

# 3.1.1 Occupied Bandwidth Emission Limits

- (a) On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P) dB$ .
- (b) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- (c) The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

# 3.1.2 Occupied Bandwidth

The 99% power bandwidth was measured with a calibrated spectrum analyzer.

# 3.1.3 Spurious and Harmonic Emissions at Antenna Terminal

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to 10 GHz.

At the input terminals of the spectrum analyzer, an isolator(RF circulator with on port terminated with 50ohms) and an 870 MHz to 890 MHz band pass filter is connected between the test transceiver(for conducted tests)or the receive antenna(for radiated tests) and the analyzer. The rejection of the band pass filter to signals in the 825-845 MHz range is adequate to limit the transmit energy from the test transceiver which appears to a level which will allow the analyzer to measure signals less than-90dBm. Calibration of the test receiver is performed in the 870-890 MHz range to insure accuracy to allow variation in the band pass filter insertion loss to be calibrated.

# 3.1.4 Frequencies

At the input terminals of the spectrum analyzer, an isolator (RF pad) and a high-pass filter are connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The high-pass filter is to limit the fundamental frequency from interfering with the measurement of low-level spurious and harmonic emissions and to ensure that the preamplifier is not saturated.

# 3.1.5 Radiation Spurious and Harmonic Emissions

Radiation and harmonic emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna.

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

(Continued...)

### 3.1.6 Frequency Stability/Temperature Variation.

The frequency stability of the transmitter is measured by:

- a) **Temperature**: The temperature is varied from -30°C to + 60°C using an environmental chamber.
- b) **Primary Supply Voltage**: The primary supply voltage is varied from 85% to 115% of the voltage Normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification –The minimum frequency stability shall be +/- 0.00025% at any time during normal operation.

Specification — The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025(\pm 2.5 \text{ppm})$  of the center frequency.

#### **Time Period and Procedure:**

- 1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25°C to 27 °C to provide a reference)
- 2. The equipment is subjected to an overnight "soak" at -30°C without any power applied.
- 3. After the overnight "soak" at -30°C(usually 14-16 hours), the equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency to the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
- 4. Frequency measurements is made at 10°C interval up to room temperature. At least a period of one and one half hour is provided to allow stabilization of the equipment at each temperature level.
- 5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
- 6. Frequency were made at 10 intervals starting at -30°C up to +50°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after applying power to the transmitter.
- 7. The artificial load is mounted external to the temperature chamber.

(Continued...)

#### 3.1.7 Radiated Emission

Final test was performed according to ANSI C63.4-2003 at the open field test site. There are no deviations from the standard.

The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 3meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.

These tests were performed at 120kHz of 6dB bandwidth.

# 3.1.8 Conducted Emission

The power line conducted interference measurements were performed according to ANSI C63.4-2003 in a shielded enclosure with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded enclosure wall. There are no deviations from the standard.

The EUT was plugged into the LISN and the frequency range of interest scanned.

Reported are maximized emission levels.

These tests were performed at 9kHz of 6dB bandwidth.

#### 4.1 TEST DATA

# **4.1.1 Conducted Output Power**

The output power was measured under all R.C.s and S.O.s which are listed below measurement data. The worst case output power is reported with SO55 of RC1 for CELLULAR band.

Therefore this device was tested under SO55 of RC1 for CELLULAR band

#### **SAR Measurement Procedures for 3G Devices(Released June 2006)**

- verify maximum output power
  - on high, middle and low channels
  - according to 3GPP2 C.S0011 / TIA-98-E, Sec. 4.4.5
- Power measurement configurations
  - 1.1X RRT
  - Test Mode 1(C.S0011 Table 4.4.5.2-1), SO55, RC1, Traffic Channel @9600bps
  - Test Mode 3(C.S0011 Table 4.4.5.2-2), SO55 or SO32, RC3, FCH @9600bps
  - Test Mode 3(C.S0011 Table 4.4.5.2-2), SO32, RC3, FCH+SCH @9600bps
  - other configurations supported by the DUT
  - power control
    - · Bits Hold for FCH+SCH
    - · otherwise ALL Bits Up
  - 2. Ev-DO Rev.0
    - FTAP: 2 slot version of 307.2Kbps(ACK in all slots)
    - RTAP: 153.6Kbps in sub type 0/1 PHY Configuration

#### - Measurement data

	Channel							
Band		RC1	RC1	RC3	RC3	RC3	RC3	EvDO (Rev. 0)
		SO2	SO55	SO2	SO55	SO32 (Only FCH)	SO32 (TDSO)	(110110)
	1013	23.97	24.01	23.96	23.95	24.00	23.94	N/A
Cellular	384	23.41	23.50	23.37	23.34	23.41	23.42	N/A
	777	23.31	23.45	23.44	23.44	23.42	23.42	N/A

# **4.1.2 Effective Radiated Power Output**

#### A. POWER: High (CDMA Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	Supplied Power	Note
824.70	-17.12	Н	0.097	19.85	DC 5V	RC1 SO55
836.52	-15.96	Н	0.145	21.62	DC 5V	RC1 SO55
848.31	-15.81	Н	0.147	21.67	DC 5V	RC1 SO55

#### NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

#### **4.1.3 CDMA Radiated Measurements**

### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.7 MHz

CHANNEL : <u>1013(Low)</u>

MEASURED OUTPUT POWER : 19.85 dBm = 0.097 W

MODULATION SIGNAL : CDMA (Internal)

DISTANCE: 3 meters

LIMIT :  $43 + 10 \log_{10} (W) = 32.85$  dBc

Freq.	LEVEL@	SUBSTITUTE	CORRECT	POL	
(MHz)	ANTENNA	ANTENNA	GENERATOR	(H/V)	
	TERMINALS	GAIN	LEVEL		(dBc)
	(dBm)	(dBd)	(dBm)		
1649.4	-48.92	6.71	-42.21	Н	-62.06
-	-	-	-	-	-
-	-	-	-	-	-

<sup>-</sup> No other emissions were detected at a level greater than 20dB below limit.

#### NOTE

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

#### **4.1.3 CDMA Radiated Measurements**

(Continued...)

# Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.52 MHz

CHANNEL: 384(Mid)

MEASURED OUTPUT POWER : 21.62 dBm = 0.145 W

MODULATION SIGNAL : CDMA (Internal)

DISTANCE: 3 meters

LIMIT :  $43 + 10 \log_{10} (W) = 34.62$  dBc

Freq.	LEVEL@	SUBSTITUTE	CORRECT	POL	
(MHz)	ANTENNA	ANTENNA	GENERATOR	(H/V)	
	TERMINALS	GAIN	LEVEL		(dBc)
	(dBm)	(dBd)	(dBm)		
2509.56	-52.45	7.65	-44.80	V	-66.42
-	-	-	-	-	-
-	-	-	-	1	-

<sup>-</sup> No other emissions were detected at a level greater than 20dB below limit.

#### NOTE

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

#### **4.1.3 CDMA Radiated Measurements**

(Continued...)

### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.31 MHz

CHANNEL: 777(High)

MEASURED OUTPUT POWER : 21.67 dBm = 0.147 W

MODULATION SIGNAL : CDMA (Internal)

DISTANCE: 3 meters

LIMIT :  $43 + 10 \log_{10} (W) = \underline{34.67}$  dBc

Freq.	LEVEL@	SUBSTITUTE	CORRECT	POL	
(MHz)	ANTENNA	ANTENNA	GENERATOR	(H/V)	
	TERMINALS	GAIN	LEVEL		(dBc)
	(dBm)	(dBd)	(dBm)		
2544.93	-49.57	7.77	-41.80	Н	-63.47
-	-	-	-	-	-
-	-	-	-	-	-

<sup>-</sup> No other emissions were detected at a level greater than 20dB below limit.

#### NOTE

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

# **4.1.4 Frequency Stability (CDMA)**

OPERATING FREQUENCY : 836,520,018 Hz

CHANNEL : <u>0384(Mid)</u>

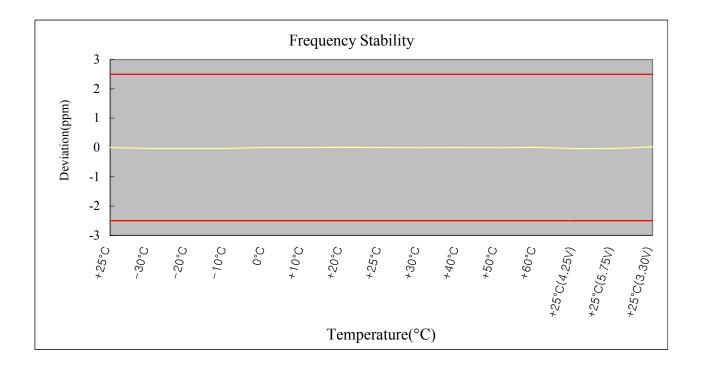
REFERENCE VOLTAGE : 5 VDC

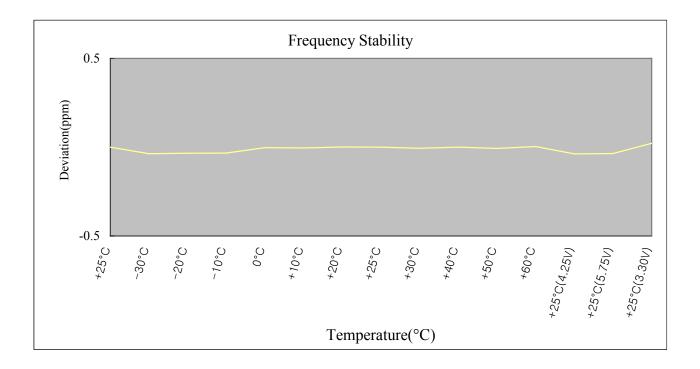
DEVIATION LIMIT :  $\pm 0.00025$  % or 2.5 ppm

VOLTAGE	POWER	TEMP	FREQ	Deviation
(%)	(VDC)	(dB)	(Hz)	(%)
100%	5	+25(Ref)	836,520,018	0.000000
100%		-30	836,519,987	-0.000004
100%		-20	836,519,989	-0.000003
100%		-10	836,519,990	-0.000003
100%		0	836,520,016	0.000000
100%		+10	836,520,014	0.000000
100%		+20	836,520,019	0.000000
100%		+25	836,520,018	0.000000
100%		+30	836,520,013	-0.000001
100%		+40	836,520,018	0.000000
100%		+50	836,520,012	-0.000001
100%		+60	836,520,021	0.000000
85%	4.25	+25	836,519,986	-0.000004
115%	5.75	+25	836,519,988	-0.000004
ENDPOINT	3.30	+25	836,520,036	0.000002

# **4.1.4 Frequency Stability (CDMA)**

(Continued...)





# **5.1 PLOTS OF EMISSIONS**

(SEE ATTACHMENT "Test Plots")

# 6.1 LIST OF TEST EQUIPMENT

	Туре	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
01	Spectrum Analyzer	Agilent	E4404B	17/04/07	17/04/08	US41061134
02	Spectrum Analyzer	Agilent	E4440A	14/11/07	14/11/08	MY45304199
03	Spectrum Analyzer	H.P	8563E	09/10/07	09/10/09	3551A04634
04	Power Meter	H.P	EMP-442A	23/03/07	23/03/08	GB37170413
05	Power Sensor	H.P	8481A	23/03/07	23/03/08	3318A96566
06	Frequency Counter	H.P	5342A	06/09/07	06/09/08	2119A04450
07	Signal Generator	Rohde Schwarz	SMR20	21/03/07	21/03/08	101251
08	Signal Generator	H.P	ESG-3000A	10/07/07	10/07/08	US37230529
09	Audio Analyzer	H.P	8903B	10/07/07	10/07/08	3011A09448
10	Modulation Analyzer	H.P	8901B	14/07/07	14/07/08	3028A03029
11	Oscilloscope	Tektronix	TDS3052	14/11/06	14/11/07	B016821
12	Universal Radio Communication tester	Rohde Schwarz	CMU200	24/04/07	24/04/08	107631
13	8960 Series 10 Wireless Comms. Test Set	Agilent	E5515C	18/07/07	18/07/09	GB43461134
14	Bluetooth Tester	TESCOM	TC-3000A	28/03/07	28/03/08	3000A4A0121
15	Multisystem Ue Tester	Japan Radio Co.,Ltd	NJZ-2000	20/11/06	20/11/07	ET00095
16	Power Splitter	WEINSCHEL	1593	05/10/07	05/10/08	332
17	BAND Reject Filter	Microwave Circuits	N0308372	18/10/07	18/10/08	3125-01DC0312
18	BAND Reject Filter	Wainwright	WRCG1750	18/10/07	18/10/08	SN2
19	AC Power supply	DAEKWANG	5KVA	20/03/07	20/03/08	N/A
20	DC Power Supply	H.P	6622A	20/03/07	20/03/08	465487
21	Attenuator (10dB)	WEINSCHEL	23-10-34	26/01/07	26/01/08	BP4387
22	HORN ANT	EMCO	3115	10/08/07	10/08/08	6419
23	HORN ANT	EMCO	3115	09/10/07	09/10/08	21097
24	HORN ANT	A.H.Systems	SAS-574	20/08/07	20/08/08	154
25	HORN ANT	A.H.Systems	SAS-574	20/08/07	20/08/08	155
26	Dipole Antenna	Schwarzbeck	VHA9103	27/11/06	27/11/07	2116
27	Dipole Antenna	Schwarzbeck	VHA9103	27/11/06	27/11/07	2117
28	Dipole Antenna	Schwarzbeck	UHA9105	27/11/06	27/11/07	2261
29	Dipole Antenna	Schwarzbeck	UHA9105	27/11/06	27/11/07	2262

# 7.1 TEST EQUIPMENT (CONTINUED)

	Туре	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
30	RFI/FIELD Intensity Meter	Kyorits	KNM-504D	06/09/07	06/09/08	SN-161-4
31	Frequency Converter	Kyorits	KCV-604C	21/07/07	21/07/08	4-230-3
32	TEMP & HUMIDITY Chamber	JISCO	J-RHC2	02/10/07	02/10/08	021031
33	Log Periodic Antenna	Schwarzbeck	UHALP9108 A1	08/06/07	08/06/08	1098
34	Biconical Antenna	Schwarzbeck	VHA9103	08/06/07	08/06/08	2233
35	Digital Multimeter	H.P	34401A	20/03/07	20/03/08	3146A13475
36	Attenuator (10dB)	WEINSCHEL	23-10-34	05/10/07	05/10/08	BP4386
37	High-Pass Filter	ANRITSU	MP526D	08/10/07	08/10/08	MP27756
38	Attenuator (3dB)	Agilent	8491B	12/07/07	12/07/08	58177
39	Amplifier (25dB)	Agilent	8447D	08/08/07	08/08/08	2944A10144
40	Amplifier (30dB)	Agilent	8449B	25/10/07	25/10/08	3008A01590
41	Position Controller	TOKIN	5901T	N/A	N/A	14173
42	Driver	TOKIN	5902T2	N/A	N/A	14174
43	Spectrum Analyzer	H.P	8591E	16/04/07	16/04/08	3649A05889
44	RFI/FIELD Intensity Meter	Kyorits	KNW-2402	06/10/07	06/10/08	4N-170-3
45	LISN	Kyorits	KNW-407	30/08/07	30/08/08	8-317-8
46	LISN	Kyorits	KNW-242	06/10/07	06/10/08	8-654-15
47	CVCF	NF Electronic	4400	N/A	N/A	344536 4420064
48	Software	ТоҮо ЕМІ	EP5/RE	N/A	N/A	Ver 2.0.800
49	Software	ТоҮо ЕМІ	EP5/CE	N/A	N/A	Ver 2.0.801
50	Software	AUDIX	e3	N/A	N/A	Ver 3.0
51	Software	Agilent	Benchlink	N/A	N/A	A.01.09 021211

# 7.1 SAMPLE CALCULATIONS

### A. Emission Designator

#### - Cellular Band

Emission Designator = 1M27F9W

CDMA BW = 1.2735 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

# **8.1 CONCLUSION**

The data collected shows that the **Epivalley CO., LTD.** CDMA USB Modem (**FCC ID: R2NSXC-1280**) complies with all the requirements of Parts 2 and 22 of the FCC rules.