

Nemko Korea Co., Ltd.

300-2, Osan-Ri, Mohyeon-Myeon, Cheoin-Gu, Yongin-City, Gyeonggi-Do, KOREA

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FCC/IC EVALUATION REPORT FOR CERTIFICATION

Applicant :

Telit Communications S.p.A.

Viale Stazione di Prosecco 5/B, 34010 Sgonico

Trieste, Italy

Dates of Issue : December 12, 2011

Test Report No. : NK-11-R-299

Test Site : Nemko Korea Co., Ltd.

FCC ID

IC ID

Brand Name

CONTACT PERSON

**RI7DE910-DUAL
5131A-DE910DUAL**

Telit

**Telit Communications S.p.A.
Viale Stazione di Prosecco 5/B, 34010
Sgonico, Trieste, Italy
Brian Tucker
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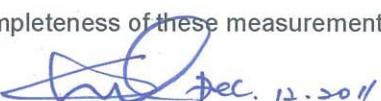
Applied Standard: FCC 47 CFR Part 2, 22, 24

Classification: Licensed Transmitter(PCB)

EUT Type: DUAL BAND CDMA/GPS Module

The device bearing the brand 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. The client should not use it to claim product endorsement by TAF or any government agencies. The test results in the report only apply to the tested sample.

I attest to the accuracy of data and 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.


Dec. 12.2011
Tested By : Minchul Shin
Engineer


Dec. 12.2011
Reviewed By : H.H.Kim
Manager & Chief Engineer

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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 under FCC Part 2 & Part 22 & 24 and Industrie Canada under RSS-Gen & 132 & 133.

Responsible Party : Telit Communications S.p.A.

Contact Person : Brian Tucker

Tel No. : +919 439 7977

Manufacturer : Telit Communications S.p.A.

Viale Stazione di Prosecco 5/B, 34010

Sgonico, Trieste, Italy

- FCC ID: RI7DE910-DUAL
- IC 5131A-DE910DUAL
- Model: DE910-DUAL
- Brand Name: Telit
- EUT Type: DUAL BAND CDMA/GPS Module
- Classification: Licensed Portable Transmitter(PCB)
- Applied Standard: FCC 47 CFR Part & 2, 22, 24
RSS-Gen, 132,133
- Test Procedure(s): ANSI C63.4 (2003)
- Dates of Test: November 22, 2011 ~ November 30, 2011
- Place of Tests: Nemko Korea Co., Ltd.

2. Introduction (Site Description)

2.1 Test facility

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSI C63.4-2003) was used in determining radiated and conducted emissions emanating from **Telit Communications S.p.A.**

FCC ID : RI7DE910-DUAL and IC: 5131A-DE910DUAL

These measurement tests were conducted at **Nemko Korea Co., Ltd.**

The site address is 300-2, Osan-Ri, Mohyeon-Myeon, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, KOREA

The area of Nemko Korea Corporation Ltd. Test site is located in a mountain area at 80 kilometers (48 miles) southeast and Incheon International Airport (Incheon Airport), 30 kilometers (18miles) south-southeast from central Seoul.

It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures.

The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 2003.



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Fig. 1. The map above shows the Seoul in Korea vicinity area.
The map also shows Nemko Korea Corporation Ltd. and Incheon Airport.

2.2 Accreditation and listing

	Accreditation type	Accreditation number
	FCC part 15/18 Filing site	Registration No. 97992
	CAB Accreditation for DOC	Designation No. KR0026
	KOLAS Accredited Lab. (Korea Laboratory Accreditation Scheme)	Registration No. 155
 Industry Canada	Canada IC Registered site	Site No. 2040E-1
	VCCI registration site(RE/CE/Telecom CE)	Member No. 2118
	EMC CBTL	-
	KCC(RRL)Designated Lab.	Registration No. KR0026
	SASO registered Lab and Certification Body	Registration No. 2008-15

3. Test Conditions & EUT Information

3.1 Operating During Test

The EUT was tested at the lowest channel, middle channel and the highest channel with maximum RF power and all data were recorded in the report.

3.2 Environmental Conditions

Temperature	21°C ~ 26°C
Relative Humidity	35% ~ 60%

3.3 Description of EUT

Frequency Band	Tx	824.70 MHz ~ 848.31 MHz 1851.25 MHz ~ 1908.75 MHz
	Rx	869.70 MHz ~ 893.31 MHz 1931.25 MHz ~ 1988.75 MHz
Output Power (Conducted power)	Cellular CDMA : 0.298 W(24.74 dBm) PCS CDMA : 0.274 W(24.37 dBm)	
Emission Designator	1M29F9W	
Antenna Type	Magnet Mount Antennas	
Antenna Gain	5.12 dBi for Cellular, 6.12 dBi for PCS	
Dimensions	28.2 mm(W) x 28.2 mm(D) x 2.5 mm(H)	
Weight	Approx. 4.7 g	
Operating Temperature	-30°C ~ +85 °C	

4. Measuring Instrument Calibration

All measurements were made with instruments calibrated according to the recommendation by manufacturer. Measurement of radiated emissions and conducted emissions were made with instruments conforming to American National Standards Institute, ANSI C63.4-2003.

The calibration of measuring instrument, including any accessories that may affect test results, were performed according to the recommendation by manufacturer.

- End of page -

5. Summary of Test Results

The EUT has been tested according to the following specification:

Description of Test	FCC Rule	IC Rule	Result
ERP / EIRP Measurement	§22.913(a)(2) §24.232(c)	RSS-132(4.4) [SRSP503(5.1.3)] RSS-133(6.4)	Complies
Conducted Output Power	§2.1046	RSS-132(4.4) RSS-133(4.1)	Complies
Occupied Bandwidth / 26dB Emission Bandwidth	§2.1049 §22.917(a) §24.238(a)	RSS-Gen(4.6.1) RSS-133(2.3)	Complies
Conducted Spurious Emission / Band Edge	§2.1051 §22.917(a) §24.238(a)	RSS-132(4.5.1) RSS-133(6.5.1)	Complies
Peak-Average Ratio	§24.232(d)	RSS-133(6.4)	Complies
Radiated Spurious & Harmonic Emission	§2.1053 §22.917(a) §24.238(a)	RSS-132(4.5.1) RSS-133(6.5.1)	Complies
Frequency Stability / Temperature Variation	§2.1055 §22.355 §24.235	RSS-132(4.3) RSS-133(6.3)	Complies
Receiver Spurious Emissions	-	RSS-Gen(6.1) RSS-132(4.6) RSS-133(6.6)	Complies

6. Recommendation / Conclusion

The data collected shows that the **Telit Communications S.p.A. DUAL BAND CDMA/GPS Module** FCC ID: RI7DE910-DUAL/ IC: 5131A-DE910DUAL is in compliance with Part 2, 22, 24 of the FCC Rules and RSS-Gen, 132, 133 of the IC Rules.

7. Description of Tests

7.1 Effective Radiated Power / Equivalent Isotropic Radiated Power

Test Set-up:

Effective Radiated Power Output and Equivalent Isotropic Radiated Power output Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2003.

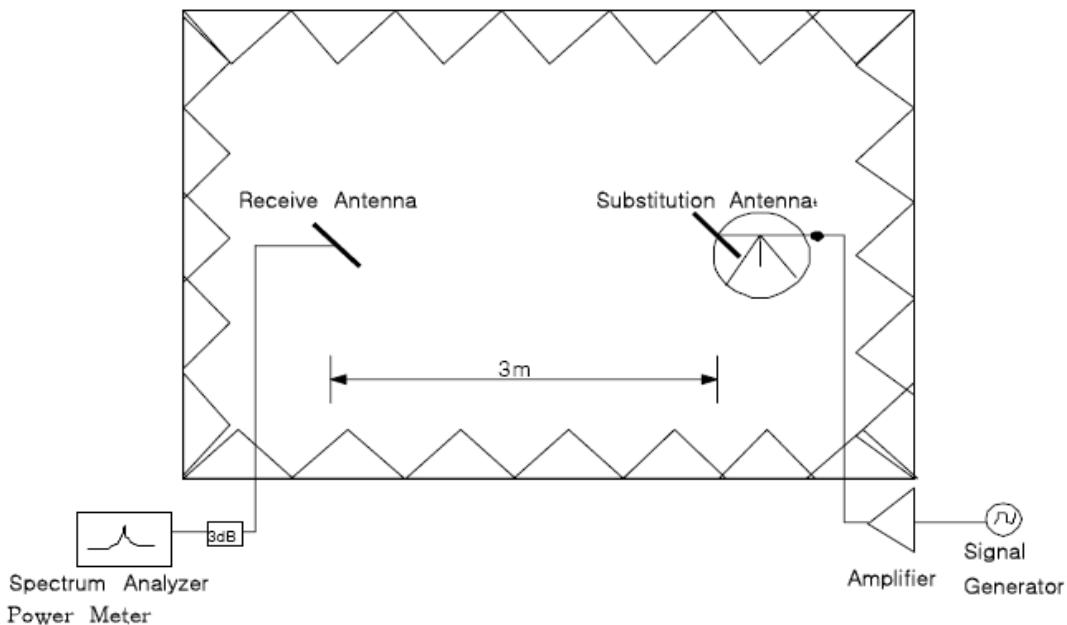


Diagram of ERP/EIRP test Set-up

The EUT was set on a non-conductive turntable in a semi anechoic chamber. In the corner of the chamber there was a communication antenna, which was connected to the BS simulator located outside the chamber. The radiated power from the EUT was measured with an antenna fixed to a antenna tower.

The tower and turn table were remotely controlled to turn the EUT and change the antenna polarization. The measured signal was routed from the measuring antenna to the spectrum analyzer. The BS simulator was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

Test Method:

1. The maximum power level was searched by moving the turn table and measuring antenna and manipulating the EUT. This level (P_{EUT}) was recorded.
2. Spectrum analyzer was set to RBW 3 MHz, VBW 3 MHz, peak detection mode.
3. Replace the EUT with a substituting antenna and feed the substitution antenna at the EUT end with a signal generator connected to the antenna.
4. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained(P_{EUT}).
5. Calculate the EIRP, in dBm, by the power loss in the cable between the generator and antenna, corrected for the gain of the substitution antenna.

7.2 Radiated Spurious & Harmonic Emission

Test Set-up:

Effective Radiated Power Output and Equivalent Isotropic Radiated Power output Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2003.

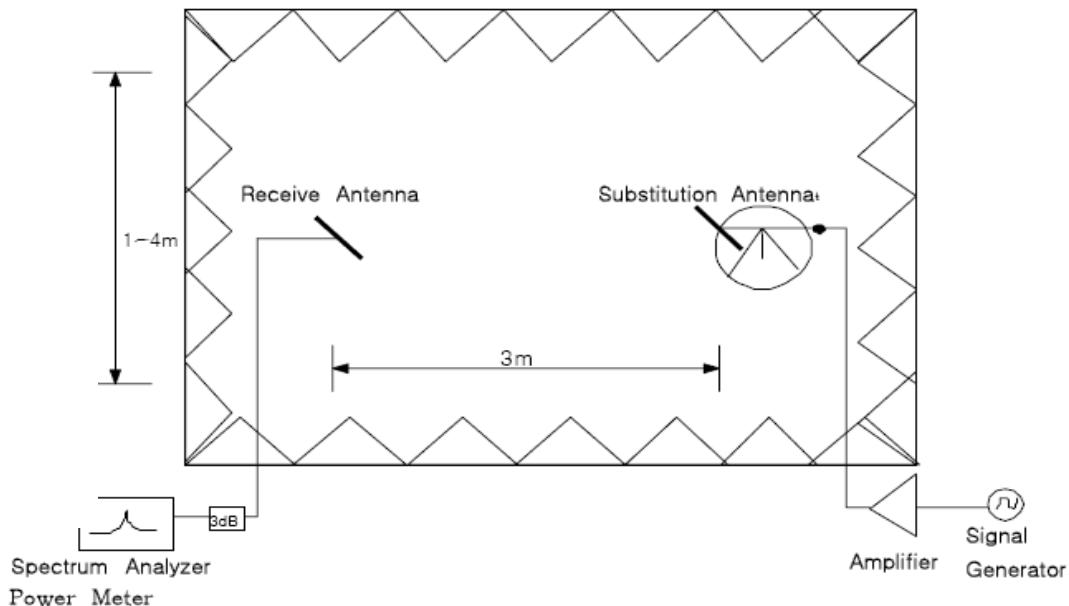


Diagram of Radiated Spurious & Harmonic test Set-up

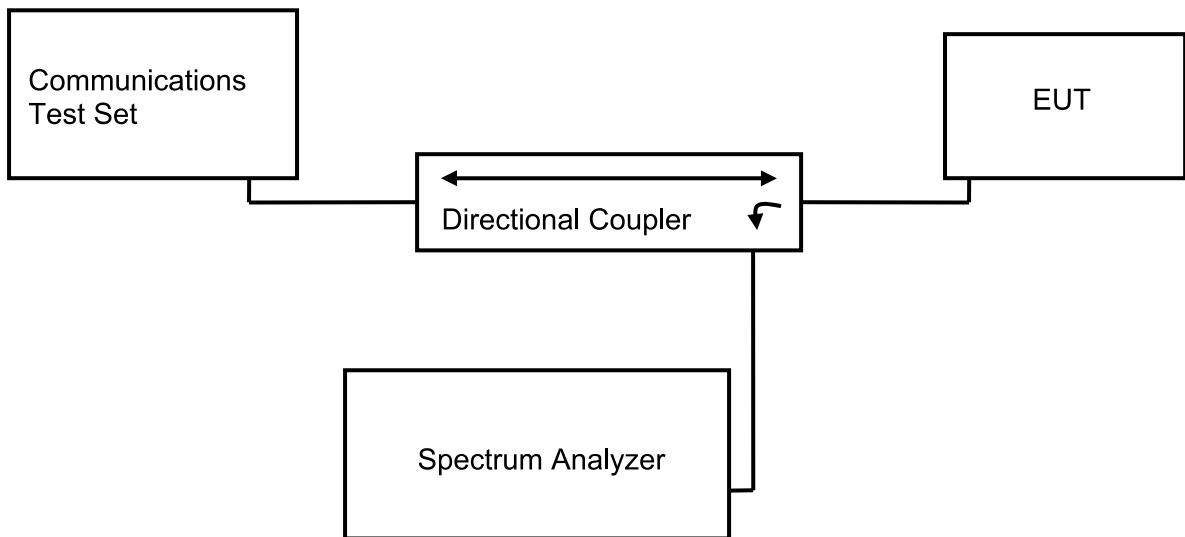
The EUT was set on a non-conductive turntable in a semi anechoic chamber. In the corner of the chamber there was a communication antenna, which was connected to the BS simulator located outside the chamber. The radiated power from the EUT was measured with an antenna fixed to a antenna tower. The tower and turn table were remotely controlled to turn the EUT and change the antenna polarization. The measured signal was routed from the measuring antenna to the spectrum analyzer. The BS simulator was used to set the TX channel and power level and modulate the TX signal with different bit patterns. The radiated spurious and harmonic emission were measured up to 10th harmonic of the fundamental frequency of operation.

Test Method:

1. The maximum power level was searched by moving the turn table and measuring antenna and manipulating the EUT. This level (P_{EUT}) was recorded.
2. For measurements the resolution bandwidth and video bandwidth were set to 100 kHz for emissions below 1GHz and 1 MHz for emissions over 1GHz.
3. Replace the EUT with a substituting antenna and feed the substitution antenna at the EUT end with a signal generator connected to the antenna.
4. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained(P_{EUT}).
5. Calculate the ERP, in dBm, by the power loss in the cable between the generator and antenna, corrected for the gain of the substitution antenna.

7.3 Occupied Bandwidth / 26dB Emission Bandwidth

Test Set-up:



Test Method:

Occupied Bandwidth

The EUT was setup to maximum output power at its lowest channel. The occupied bandwidth was measured using a spectrum analyzer. The measurements are repeated for the highest and a middle channel.

The EUT's occupied bandwidth was measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

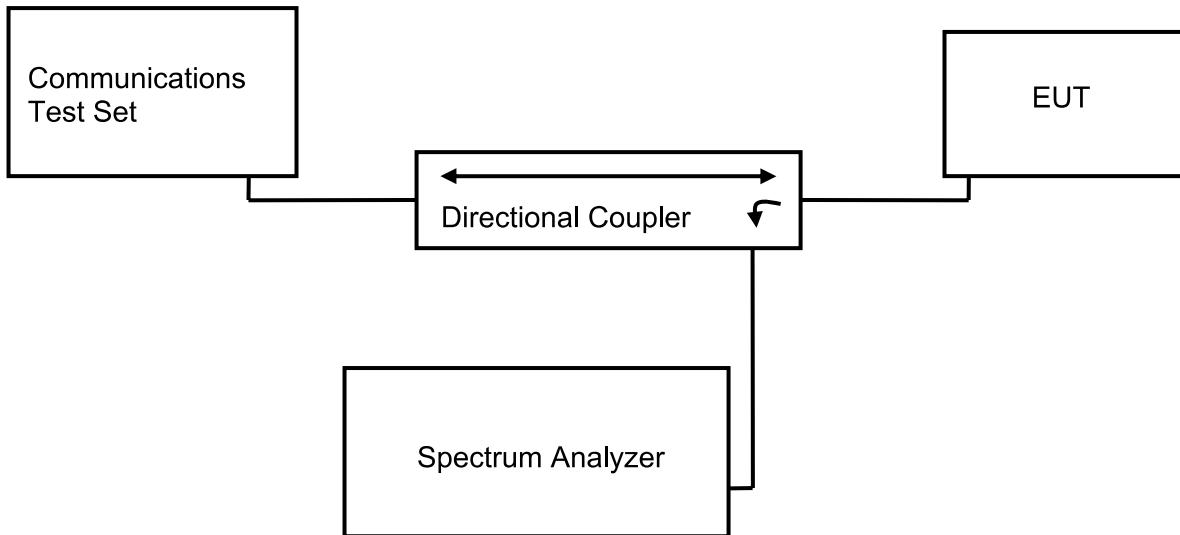
26dB Emission Bandwidth

The transmitter output was connected to the spectrum analyzer.

The RBW of spectrum analyzer was set to approximately 1% of the emission bandwidth and peak detection was used. The emission bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 26 dB.

7.4 Conducted Spurious Emission

Test Set-up:



Minimum standard:

On any frequency outside a license frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43+10\log(P)$ dB. Limit equivalent to -13 dBm, calculation shown below.

$$43 + 10\log(0.912 \text{ W}) = 42.6 \text{ dB}$$

$$29.6 \text{ dBm} - 42.6 \text{ dB} = -13 \text{ dBm}$$

Compliance with the out-of-band emissions requirement is based on test being performed with an analyzer resolution bandwidth of 1 MHz. However in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 1 % of the fundamental emissions bandwidth may be employed.

Test Procedure:

The EUT was setup to maximum output power at its lowest channel.

The Resolution BW of the analyzer is set to 1 % of the emission bandwidth to show compliance with the -13 dBm limit, in the 1 MHz bands immediately outside and adjacent to the edge of the frequency block.

The measurements were repeated for the EUT's highest channel. For the Out-of-Band measurements a 1 MHz RBW, VBW and peak detection was used to scan from 10 MHz to 20 GHz. A display line was placed at -13 dBm to show compliance. The high, lowest and middle channels were tested for out of band measurements.

Frequency Bands:

BLOCK	Frequency Range (MHz) Transmitter (Tx)	Frequency Range (MHz) Receiver (Rx)
A* Low +A	824 ~ 835	869 ~ 880
B	835 ~ 845	880 ~ 890
A* High	845 ~ 846.5	890 ~ 891.5
B*	846.5 ~ 849	891.5 ~ 894

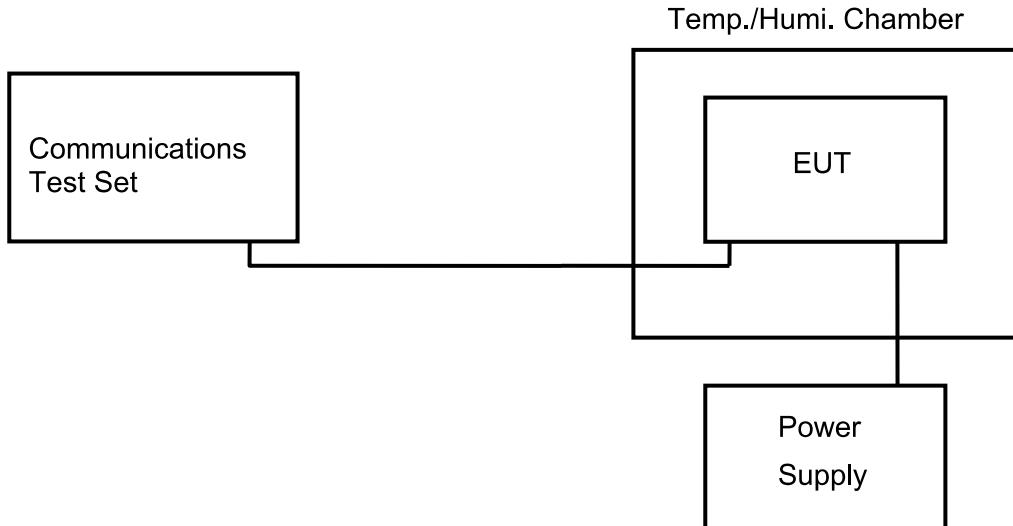
Cellular Service Frequency Blocks

BLOCK	Frequency Range (MHz) Transmitter (Tx)	Frequency Range (MHz) Receiver (Rx)
A	1850 ~ 1865	1930 ~ 1975
B	1870 ~ 1885	1950 ~ 1965
C	1895 ~ 1910	1975 ~ 1990
D	1865 ~ 1870	1945 ~ 1950
E	1885 ~ 1890	1965 ~ 1970
F	1890 ~ 1895	1970 ~ 1975

PCS Service Frequency Blocks

7.5 Frequency Stability / Temperature Variation

Test Set-up:



Specification :

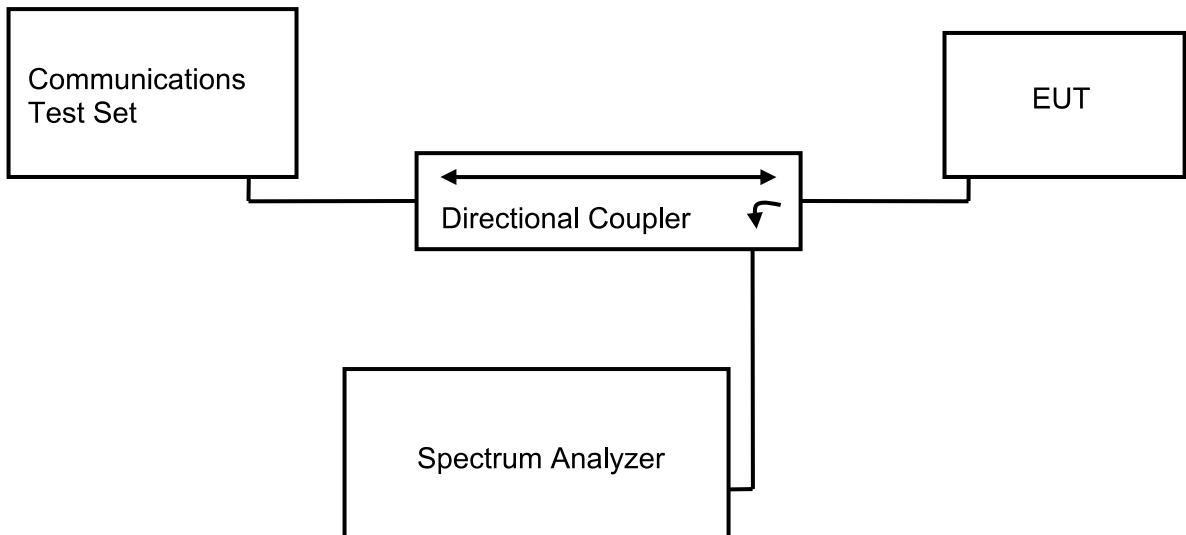
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

Test Method :

1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature($20\text{ }^{\circ}\text{C}$ to $25\text{ }^{\circ}\text{C}$ to provide a reference).
2. The equipment is subjected to an overnight "soak" at $-30\text{ }^{\circ}\text{C}$ without any power applied.
3. After the overnight "soak" at $-30\text{ }^{\circ}\text{C}$ (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 of the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
4. Frequency measurements are made at $10\text{ }^{\circ}\text{C}$ 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 measurements are at 10 intervals starting at $-30\text{ }^{\circ}\text{C}$ up to $+60\text{ }^{\circ}\text{C}$ allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after re-applying power to the transmitter.
7. The artificial load is mounted external to the temperature chamber.

7.6 Conducted Output Power

Test Set-up:



Test Method :

For conducted power measurement, connected the EUT to Communications Test Set (E5515C) through the Directional Coupler. Set the EUT transmit the maximum power at the wanted channel by controlled E5515C. The test was performed using the Spectrum Analyzer with 3 MHz RBW, VBW under all configurations then, the highest power was recorded.

8. Test Data

8.1 Conducted Output Power

FCC §2.1046, RSS-132(4.4), RSS-133(4.1)

Measurement Results : Cellular and PCS

Mode : 1x RTT

Band	Channel	Output Power (dBm)	
		Average	Peak
Cellular	1013	<u>24.74</u>	28.75
	384	24.51	28.72
	777	24.56	28.34
PCS	25	<u>24.37</u>	28.35
	600	24.11	27.22
	1175	23.67	28.34

Mode : EV-DO Rev. 0

Band	Channel	Output Power (dBm)	
		Average	Peak
Cellular	1013	<u>24.30</u>	28.94
	384	24.07	29.09
	777	24.11	28.58
PCS	25	<u>23.90</u>	28.71
	600	23.71	27.48
	1175	23.20	28.68

Mode : EV-DO Rev. A

Band	Channel	Output Power (dBm)	Output Power (dBm)
		Average	Peak
Cellular	1013	<u>24.26</u>	29.11
	384	24.03	29.09
	777	24.10	28.67
PCS	25	<u>23.89</u>	28.68
	600	23.73	27.53
	1175	23.18	28.65

Note: This device was tested under all R.C.s and S.O.s. The worst case is reported with RC1/SO55 for 1xRTT, FTAP Rate 2Slot 307.2 kbps/RETAP Rate 9.6 kbps for EVDO Rev.0 and FTAP Rate 2Slot 307.2 kbps/RETAP Rate 2048 bits for EVDO Rev.A with 'All Up' power control bits.

8.2 Effective Radiated Power (ERP)

FCC §22.913(a)(2), RSS-132(4.4)/SRSP503(5.1.3)

Measurement Results : Cellular

Mode : 1x RTT

Frequency (MHz)	Ant*. Pol.	Reading (dBm)	Level at Antenna Terminal (dBm)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
824.70	V	-10.9	24.2	0	24.2	38.45	14.25
836.52	V	-10.9	24.4	0	24.4	38.45	14.05
848.31	V	-10.9	24.4	0	24.4	38.45	14.05

Radiated Measurements at 3meters

Mode : EV-DO

Frequency (MHz)	Ant*. Pol.	Reading (dBm)	Level at Antenna Terminal (dBm)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
824.70	V	-10.7	24.4	0	24.4	38.45	14.05
836.52	V	-10.9	24.4	0	24.4	38.45	14.05
848.31	V	-10.5	24.8	0	<u>24.8</u>	38.45	13.65

Radiated Measurements at 3meters

Note: Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2.4, Aug. 17, 2004.

This device was tested under all R.C.s and S.O.s. The worst case is reported with RC1/SO55 for 1xRTT and FTAP Rate 2Slot 307.2 kbps/RETAP Rate 9.6 kbps for EVDO Rev.0 with 'All Up' power control bits.

ERP(dB) =Level at Antenna Terminal(dBm) + Antenna Gain(dBd)

8.3 Equivalent Isotropic Radiated Power (EIRP)

FCC §24.232(c), RSS-133(6.4)

Measurement Results : PCS

Mode : 1x RTT

Frequency (MHz)	Ant*. Pol.	Reading (dBm)	Level at Antenna Terminal (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1851.25	V	-21.0	11.9	9.39	21.3	33	11.7
1880.00	V	-18.6	14.8	9.55	24.3	33	8.7
1908.75	V	-17.7	16.2	9.71	25.9	33	7.1

Radiated Measurements at 3meters

Mode : EV-DO

Frequency (MHz)	Ant*. Pol.	Reading (dBm)	Level at Antenna Terminal (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1851.25	V	-20.9	12.0	9.39	21.4	33	11.6
1880.00	V	-18.8	14.6	9.55	24.1	33	8.9
1908.75	V	-17.4	16.5	9.71	<u>26.2</u>	33	6.8

Radiated Measurements at 3meters

Note: Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2.4, Aug. 17, 2004.

This device was tested under all R.C.s and S.O.s. The worst case is reported with RC1/SO55 for 1xRTT and FTAP Rate 2Slot 307.2 kbps/RETAP Rate 9.6 kbps for EVDO Rev.0 with 'All Up' power control bits.

EIRP(dB) =Level at Antenna Terminal(dBm) + Antenna Gain(dBi)

8.4 Occupied Bandwidth / 26 dB Emission Bandwidth

FCC §2.1049, RSS-133(2.3), RSS-Gen(4.6.1)

Measurement Results : Cellular and PCS

Measurement Results : Cellular

Channel	Frequency (MHz)	Occupied BW (MHz)	26dB Emission BW (MHz)
1013	824.70	1.274	1.432
384	836.52	1.274	1.431
777	848.31	1.279	1.432

Measurement Results : PCS

Channel	Frequency (MHz)	Occupied BW (MHz)	26dB Emission BW (MHz)
25	1851.25	1.288	1.447
600	1880.00	1.276	1.436
1175	1908.75	1.277	1.446

8.5 Radiated Spurious & Harmonic Emission (Cellular)

FCC §2.1053, §22.917(a), RSS-132(4.5.1)

CH 1013 (824.70 MHz)

Frequency (MHz)	Ant*. Pol.	Reading (dBm)	Level at Antenna Terminal (dBm)	Antenna Gain (dBD)	ERP (dBm)	Limit (dBm)	Margin (dB)
1650.00	V	-62.9	-63.2	6.21	-57.0	-13	44.0
2473.95	V	-65.0	-62.8	8.63	-54.2	-13	41.2
4125.00	V	-65.2	-59.4	10.31	-49.1	-13	36.1
4946.25	V	-64.3	-55.4	9.96	-45.4	-13	32.4
8246.25	V	-64.0	-47.5	9.18	-38.3	-13	25.3

Radiated Measurements at 3meters

CH 384 (836.52 MHz)

Frequency (MHz)	Ant*. Pol.	Reading (dBm)	Level at Antenna Terminal (dBm)	Antenna Gain (dBD)	ERP (dBm)	Limit (dBm)	Margin (dB)
1673.85	V	-60.8	-61.5	6.23	-55.3	-13	42.3
3346.50	V	-63.6	-60.9	9.62	-51.3	-13	38.3
4182.00	V	-61.3	-55.2	10.28	-44.9	-13	31.9
5017.50	V	-61.6	-52.2	9.96	-42.2	-13	29.2

Radiated Measurements at 3meters

CH 777 (848.31 MHz)

Frequency (MHz)	Ant*. Pol.	Reading (dBm)	Level at Antenna Terminal (dBm)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
1697.25	V	-57.4	-58.2	6.36	-51.8	-13	38.8
3394.50	V	-60.8	-57.8	9.68	-48.1	-13	35.1
4241.25	V	-58.6	-52.4	10.26	-42.1	-13	29.1
5091.75	V	-60.4	-50.7	10.03	-40.7	-13	27.7
8487.00	V	-64.0	-47.1	9.60	-37.5	-13	24.5

Radiated Measurements at 3meters

Note: Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2.4, Aug. 17, 2004.

This device was tested under all R.C.s and S.O.s. The worst case is reported with FTAP Rate 2Slot 307.2 kbps/RETAP Rate 9.6 kbps with 'All Up' power control bits.

ERP(dB) =Level at Antenna Terminal(dBm) + Antenna Gain(dBd)

1. *Ant Pol. H=Horizontal V=Vertical
2. For measurements the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz with peak measurements
3. The spectrum is measured to 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.