FCC Test Report

According to

47 CFR Part 22H, 24E

Equipment : Mobile Text Device

Model No. : D00111

FCC ID : UUU-L7E20070323

Uplink Frequency Range : CDMA2000 Cellular : 824.70~848.31 MHz

CDMA2000 PCS: 1851.25~1908.75 MHz

Max. ERP/EIRP Power : CDMA2000 Cellular : 0.00 W for 1xRTT

CDMA2000 Cellular: 0.00 W for 1xEV-DO

CDMA2000 PCS: 0.45 W for 1xRTT CDMA2000 PCS: 0.44 W for 1xEV-DO

Emission Designator : 1M25F9W

Applicant : Payne LLC

The Neumours Bldg., Suite 1414 Wilmington, Delaware 19801

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- Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.
- The data shown in this test report were carried out on Feb. 03, 2008 at Sporton International Inc. LAB.
- Report No.: FG811103, Report Version: Rev. 02.

Roy Wu Manager

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

Report No. : FG811103

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 Report Version: Rev. 02

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History of this test report

Report Issue Date: Feb. 05, 2008

Report No.	Description
FG811103	Update report no. FG661611-04 by retest RSE and ERP/EIRP for changing the PCS band pass filter

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1. General Information

1.1. Applicant

Payne LLC

The Neumours Bldg., Suite 1414 Wilmington, Delaware 19801

1.2 Basic Description of Equipment under Test

Equipment : Mobile Text Device

Model No. : D00111

FCC ID : UUU-L7E20070323

Power Supply Type: Switching

AC Power Cord : AC 120V, Wall-mount, 1.6 meter, 2 pin

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1.3 Feature of Equipment under Test

DUT Type :	Mobile Text Device		
Model Name :	D00111		
FCC ID :	UUU-L7E20070323		
Tx Frequency :	CDMA2000 Cellular : 824 ~ 849 MHz CDMA2000 PCS : 1850 ~1910 MHz		
Rx Frequency :	CDMA2000 Cellular : 869 ~ 894 MHz CDMA2000 PCS : 1930 ~ 1990 MHz		
Maximum Output Power :	CDMA2000 Cellular (1xRTT) FCH_RC1: 25.80 dBm FCH_RC3: 25.89 dBm FCH+SCH_RC3: 25.91 dBm CDMA2000 Cellular (1xEV-DO) 9.6Kbps: 25.06 dBm 38.4Kbps: 25.07 dBm 153.6Kbps: 25.34 dBm CDMA2000 PCS (1xRTT) FCH_RC1: 25.81 dBm FCH_RC3: 25.85 dBm FCH+SCH_RC3: 25.81 dBm CDMA2000 PCS (1xEV-DO) 9.6Kbps: 25.20 dBm 38.4Kbps: 25.24 dBm 153.6Kbps: 25.33 dBm		
Maximum ERP/EIRP :	CDMA2000 Cellular : 0.00 W (6.04 dBm) for 1xRTT 0.00 W (5.13 dBm) for 1xEV-DO CDMA2000 PCS : 0.45 W (26.51 dBm) for 1xRTT 0.44 W (26.48 dBm) for 1xEV-DO		
Antenna Type :	Fixed Internal		
Power Rating (DC/AC, Voltage and	DO 51/104		
Current of RF element or PA) :	DC 5V / 2A		
Digital Modulation Emission :	QPSK		
Type of Emission :	1M25F9W		
Device Power Class :	CDMA2000 Cellular : 3 CDMA2000 PCS : 2		
DUT Stage :	Identical Prototype		

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1.4 Report Date

EUT Received : Jan. 11, 2008 Report Date : Feb. 05, 2008

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2 Test Configuration of Equipment under Test

2.1 Test Manner

a. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.

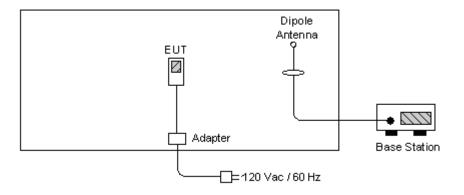
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- b. During all testings, EUT is in link mode with base station emulator at maximum power level.
- c. Frequency range investigated: radiated emission 30 MHz to 9000 MHz for CDMA2000 Cellular; 30MHz to 19000 MHz for CDMA2000 PCS.

2.2 Test Mode

Application	CDMA2000 Cellular	CDMA2000 PCS
		Mode 4: 1xRTT Link Mode_CH25
Radiated Emission	☑ Mode 2: 1xRTT Link Mode_CH384	☑ Mode 5: 1xRTT Link Mode_CH600
	☑ Mode 3: 1xRTT Link Mode_CH777	☑ Mode 6: 1xRTT Link Mode_CH1175
Conducted		
Measurement		

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Serial No.
1.	Base Station	R&S	CMU 200	N/A	N/A

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3. General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,

Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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TEL: 886-3-327-3456 FAX: 886-3-328-4978

Test Site No : 03CH06-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC. The Industry Canada file number for this site is IC 4086B-1.

3.1 Test Voltage

AC 120V / 60Hz

3.2 Test in Compliance with

47 CFR Part 22H, 24E, Part 2

3.3 Frequency Range Investigated

a. Radiation: from 30MHz to 9000MHz for CDMA2000 Cellular.

b. Radiation: from 30 MHz to 19000 MHz for CDMA2000 PCS.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.

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4. Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result	Section
§2.1046	RF Output Power	Passed	4.2
§ 22.913 §24.232	ERP / EIRP	Passed	4.3
§2.1049, § 22.917, § 24.238(b)	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051	Conducted Emission	Passed	4.5
§2.1053	Field Strength of Spurious Radiation	Passed	4.6
§2.1055, § 22.355, §24.235	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §22.355, §24.235	Frequency Stability vs. Voltage	Passed	4.8

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4.2 RF Output Power

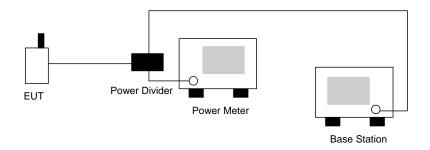
4.2.1 Measurement Instruments

As described in chapter 5 of this test report.

4.2.2 Test Procedure

- a. The transmitter output was connected to power meter and base station through power divider.
- b. Set EUT maximum power through base station.
- c. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout



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4.2.4 Test Result

Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
			1013	824.70 (Low)	25.71	0.37
		FCH _RC1	384	836.52 (Mid)	25.80	0.38
			777	848.31 (High)	25.50	0.35
	CDMA		1013	824.70 (Low)	25.76	0.38
	CDMA 1xRTT	FCH_RC3	384	836.52 (Mid)	25.89	0.39
	IXIXII		777	848.31 (High)	25.56	0.36
			1013	824.70 (Low)	25.76	0.38
		FCH+SCH_RC3	384	836.52 (Mid)	25.91	0.39
CDMA2000			777	848.31 (High)	25.56	0.36
Cellular			1013	824.70 (Low)	24.82	0.30
		EVDO-UL: 9.6Kbps	384	836.52 (Mid)	24.98	0.31
			777	848.31 (High)	25.06	0.32
	ODMA	EVDO-UL: 38.4Kbps	1013	824.70 (Low)	24.89	0.31
	CDMA 1xEV-DO		384	836.52 (Mid)	24.98	0.31
			777	848.31 (High)	25.07	0.32
		EVDO-UL: 153.6Kbps	1013	824.70 (Low)	25.20	0.33
			384	836.52 (Mid)	25.34	0.34
			777	848.31 (High)	25.21	0.33
	CDMA 1xRTT	FCH RC3	25	1851.25 (Low)	25.81	0.38
			600	1880.00 (Mid)	25.69	0.37
			1177	1908.75 (High)	25.78	0.38
			25	1851.25 (Low)	25.85	0.38
			600	1880.00 (Mid)	25.62	0.36
			1177	1908.75 (High)	25.74	0.37
			25	1851.25 (Low)	25.70	0.37
			600	1880.00 (Mid)	25.75	0.38
CDMA2000			1177	1908.75 (High)	25.81	0.38
PCS			25	1851.25 (Low)	24.93	0.31
		EVDO-UL: 9.6Kbps	600	1880.00 (Mid)	25.20	0.33
			1177	1908.75 (High)	24.78	0.30
	CDMAA		25	1851.25 (Low)	25.03	0.32
	CDMA 1xEV-DO	EVDO-UL: 38.4Kbps	600	1880.00 (Mid)	25.24	0.33
	.,,_,		1177	1908.75 (High)	24.85	0.31
		EV/DO !!! :	25	1851.25 (Low)	25.25	0.33
		EVDO-UL: 153.6Kbps	600	1880.00 (Mid)	25.33	0.34
		153.6KDPS	1177	1908.75 (High)	25.13	0.33

Note:

- 1. For cellular band, the worst case adopted as maximum output power 25.91dBm, is at CDMA 1xRTT, FCH+SCH_RC3.
- 2. For PCS band, the worst case adopted as maximum output power 25.85dBm, is at CDMA 1xRTT, FCH RC3.

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4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-C.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

- a. The EUT was placed on a rotatable table with 1.0 meter height in an fully anechoic chamber.
- b. The EUT was set 1.2 meters from the receiving antenna which was mounted on the antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiated power.
- d. The height of the receiving antenna is also kept at 1.0M height.
- e. Taking the record of maximum ERP/EIRP.
- f. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- g. The conducted power at the terminal of the dipole antenna is measured.
- h. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- i. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

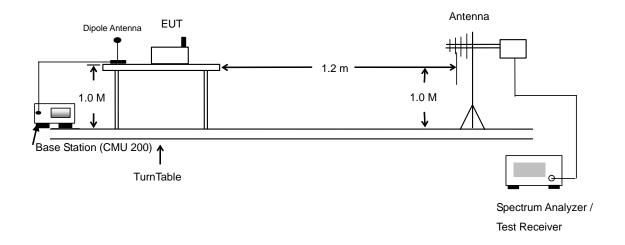
Rt: The highest received signal in Spectrum Analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna.

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4.3.3 Test Setup Layout of ERP/EIRP



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4.3.4 Test Result

С	CDMA2000 Cellular 1xRTT FCH+SCH_RC3 Radiated Power ERP									
	Horizontal Polarization									
Frequency	Rt	Rs	Ps	Gs	ERP	ERP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)				
824.70	-44.30	-48.12	0.00	-1.08	2.74	0.00				
836.52	-43.49	-48.28	0.00	-0.93	3.86	0.00				
848.31	-44.30	-48.35	0.00	-0.76	3.29	0.00				
		Ve	ertical Polarization	on						
Frequency	Rt	Rs	Ps	Gs	ERP	ERP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)				
824.70	-42.16	-47.97	0.00	-1.08	4.73	0.00				
836.52	-41.04	-48.01	0.00	-0.93	6.04	0.00				
848.31	-42.09	-48.05	0.00	-0.76	5.20	0.00				

	CDMA2000 Cellular 1xEV-DO 153.6Kbps Radiated Power ERP									
	Horizontal Polarization									
Frequency	Rt	Rs	Ps	Gs	ERP	ERP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)				
824.70	-44.57	-48.12	0.00	-1.08	2.47	0.00				
836.52	-43.86	-48.28	0.00	-0.93	3.49	0.00				
848.31	-44.80	-48.35	0.00	-0.76	2.79	0.00				
		Ve	ertical Polarization	on						
Frequency	Rt	Rs	Ps	Gs	ERP	ERP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)				
824.70	-43.31	-47.97	0.00	-1.08	3.58	0.00				
836.52	-41.95	-48.01	0.00	-0.93	5.13	0.00				
848.31	-43.43	-48.05	0.00	-0.76	3.86	0.00				

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	CDMA2000 PCS 1xRTT FCH_RC3 Radiated Power EIRP									
	Horizontal Polarization									
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)				
1851.25	-27.74	-51.88	0.00	1.96	26.10	0.41				
1880.00	-30.09	-52.99	0.00	2.00	24.90	0.31				
1908.75	-30.67	-54.28	0.00	1.98	25.59	0.36				
		Ve	ertical Polarization	on						
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP				
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)				
1851.25	-27.58	-52.13	0.00	1.96	26.51	0.45				
1880.00	-29.89	-53.17	0.00	2.00	25.28	0.34				
1908.75	-30.45	-54.13	0.00	1.98	25.66	0.37				

	CDMA2000 PCS 1xEV-DO 153.6Kbps Radiated Power EIRP								
	Horizontal Polarization								
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)			
1851.25	-27.64	-51.88	0.00	1.96	26.20	0.42			
1880.00	-29.93	-52.99	0.00	2.00	25.06	0.32			
1908.75	-30.83	-54.28	0.00	1.98	25.43	0.35			
		Ve	ertical Polarizati	on					
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)			
1851.25	-27.61	-52.13	0.00	1.96	26.48	0.44			
1880.00	-29.37	-53.17	0.00	2.00	25.80	0.38			
1908.75	-30.30	-54.13	0.00	1.98	25.81	0.38			

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4.4 Occupied Bandwidth and Band Edge Measurement

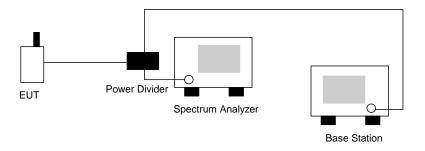
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The 99% occupied bandwidth and 26 dB Bandwidth of middle channel for the highest RF powers were measured.
- 3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.
- 4. The RBW was replaced 30KHz with 10KHz, due to the spectrum analyzer IF-Filter leading to an exceeding of the limit, a worst case correction factor of 10 log (1% Occupy Bandwidth / Measured RBW) was used.

4.4.3 Test Setup Layout



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4.4.4 Test Data

Mode 1~2

wode 1~2								
Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Measurement Value (dBm)	Correction Factor (dB)	Band Edge (dBm)	
		FCH_RC1	1013	824.70 (Low)	-16.06	1.06	-15.00	
		run_kui	777	848.31 (High)	-14.96	1.06	-13.90	
	CDMA	FCH RC3	1013	824.70 (Low)	-16.03	1.06	-14.97	
	1xRTT		777	848.31 (High)	-15.74	1.06	-14.68	
		FCH+SCH_RC3	1013	824.70 (Low)	-15.62	1.06	-14.56	
CDMA2000		FOIT-SOIT_NOS	777	848.31 (High)	-15.55	1.06	-14.49	
Cellular		9.6Kbps	1013	824.70 (Low)	-16.36	1.06	-15.30	
			777	848.31 (High)	-15.41	1.06	-14.35	
	CDMA	20 4Khna	1013	824.70 (Low)	-15.96	1.06	-14.90	
	1xEV-DO	38.4Kbps	777	848.31 (High)	-16.18	1.06	-15.12	
		153.6Kbps	1013	824.70 (Low)	-15.46	1.06	-14.40	
			777	848.31 (High)	-15.87	1.06	-14.81	

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Note:

= 10*log[(0.01*1276.00KHz) / 10KHz]

= 1.06 dB

• Mode 3~4

Mode 3~4							
Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Measurement Value (dBm)	Correction Factor (dB)	Band Edge (dBm)
CDMA2000 PCS	CDMA 1xRTT	FCH_RC1	25	1851.25 (Low)	-25.12	1.04	-24.08
			1177	1908.75 (High)	-29.53	1.04	-28.49
		FCH_RC3	25	1851.25 (Low)	-25.82	1.04	-24.78
			1177	1908.75 (High)	-28.98	1.04	-27.94
		FCH+SCH_RC3	25	1851.25 (Low)	-25.22	1.04	-24.18
			1177	1908.75 (High)	-28.05	1.04	-27.01
	CDMA 1xEV-DO	9.6Kbps	25	1851.25 (Low)	-29.76	1.04	-28.72
			1177	1908.75 (High)	-23.65	1.04	-22.61
		38.4Kbps	25	1851.25 (Low)	-29.98	1.04	-28.94
			1177	1908.75 (High)	-26.88	1.04	-25.84
		153.6Kbps	25	1851.25 (Low)	-30.07	1.04	-29.03
			1177	1908.75 (High)	-27.26	1.04	-26.22

Note:

= 10*log[(0.01*1272.00KHz) / 10KHz]

= 1.04 dB

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^{*}Occupy Bandwidth = 1276.00KHz

^{*}Correction Factor = 10*log(1% Occupy Bandwidth / Measurement RBW)

^{*}Band Edge = Measurement Value + Correction Factor

^{*}Occupy Bandwidth = 1272.00KHz

^{*}Correction Factor = 10*log(1% Occupy Bandwidth / Measurement RBW)

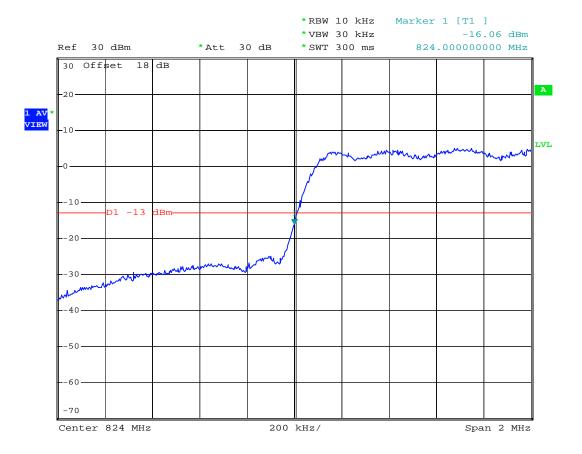
^{*}Band Edge = Measurement Value + Correction Factor

4.4.5 Test Result

Mode 1

Test Mode: CDMA2000 Cellular 850 Band CH1013_FCH_RC1 Lower Band Edge for 1xRTT

• Power State : High

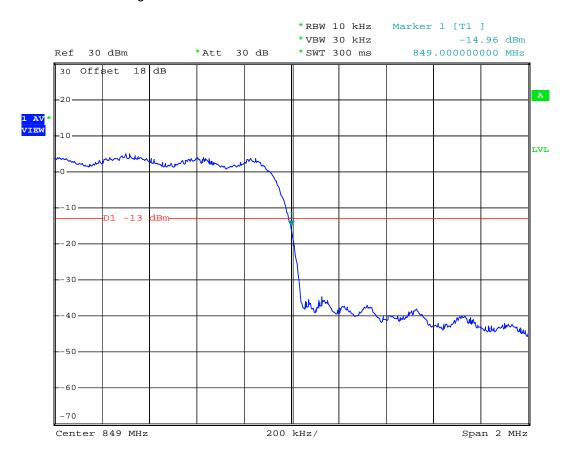


Date: 8.JUL.2007 06:22:56

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 14 of 79
Report Issued Date : Feb. 05, 2008
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Test Mode: CDMA2000 Cellular 850 CH777_FCH_RC1 Higher Band Edge for 1xRTT

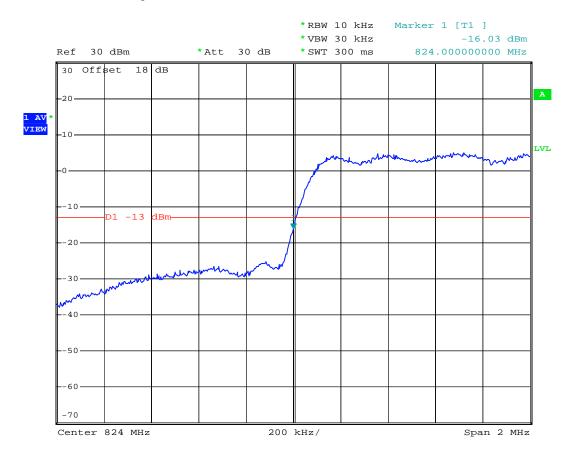
Power State : High



Date: 8.JUL.2007 06:25:49

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 15 of 79
Report Issued Date : Feb. 05, 2008
Report Version : Rev. 02

- Test Mode: CDMA2000 Cellular 850 Band CH1013_FCH_RC3 Lower Band Edge for 1xRTT
- Power State : High

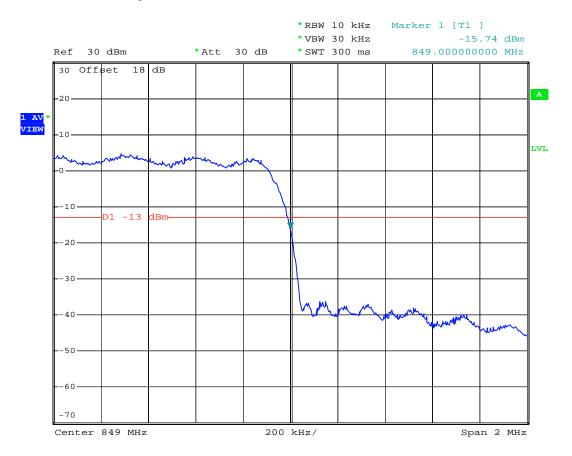


Date: 8.JUL.2007 06:22:24

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 16 of 79
Report Issued Date : Feb. 05, 2008
Report Version : Rev. 02

Test Mode: CDMA2000 Cellular 850 CH777_FCH_RC3 Higher Band Edge for 1xRTT

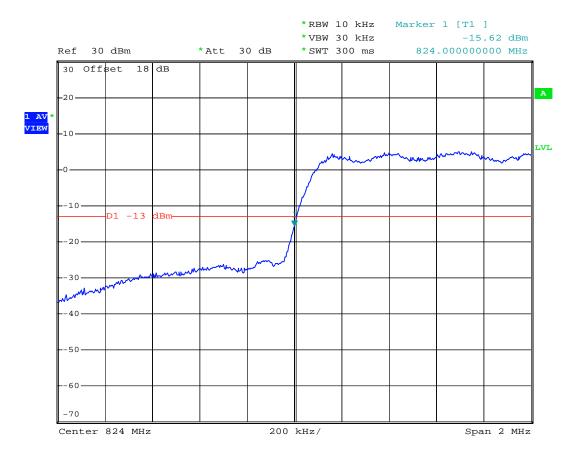
Power State : High



Date: 8.JUL.2007 06:26:53

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Report Version : Rev. 02

- Test Mode: CDMA2000 Cellular 850 Band CH1013_FCH+SCH_RC3 Lower Band Edge for 1xRTT
- · Power State : High



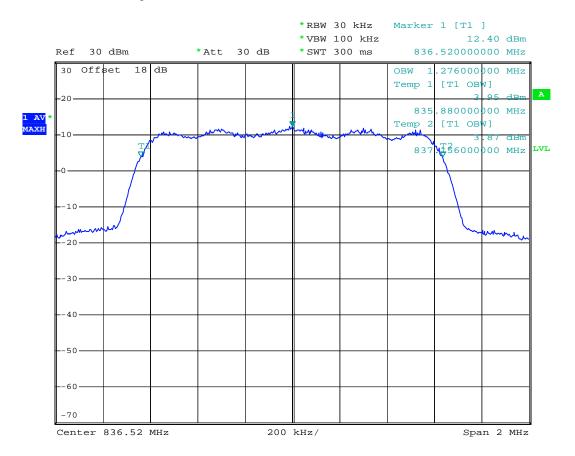
Date: 8.JUL.2007 06:23:36

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 18 of 79
Report Issued Date : Feb. 05, 2008
Report Version : Rev. 02

FCC Test Report No. : FG811103

Test Mode: CDMA2000 Cellular 850 CH384 99% Occupid Bandwidth for 1xRTT

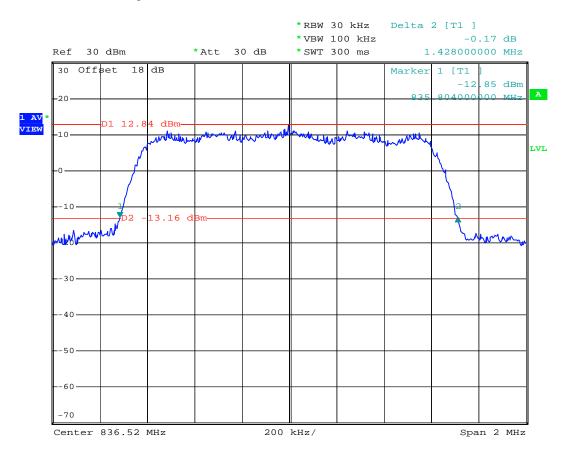
Power State : High



Date: 8.JUL.2007 09:52:48

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Test Mode: CDMA2000 Cellular 850 CH384 26 dB Bandwidth for 1xRTT

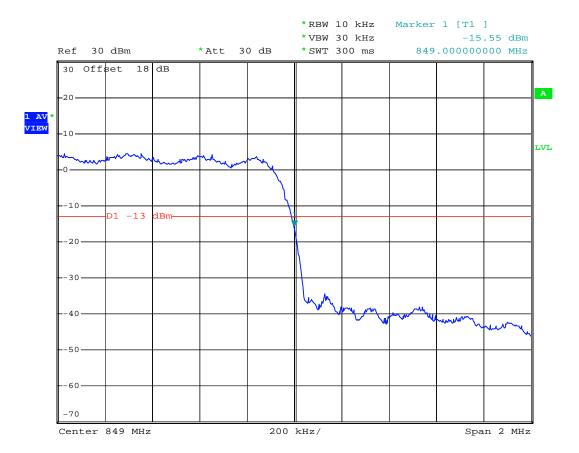
Power State : High



Date: 8.JUL.2007 09:56:36

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

- Test Mode: CDMA2000 Cellular 850 CH777_FCH+SCH_RC3 Higher Band Edge for 1xRTT
- · Power State : High



Date: 8.JUL.2007 06:25:00

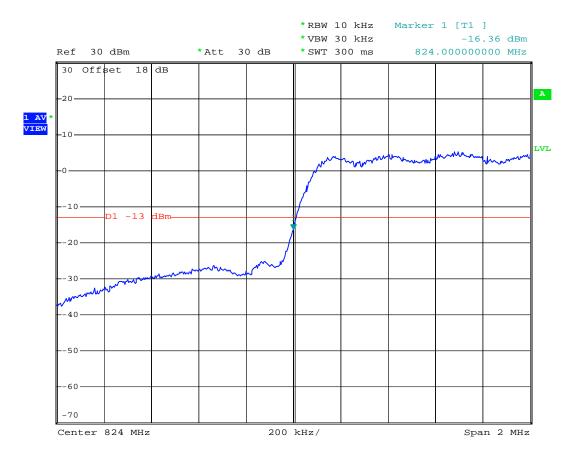
FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

Report No. : FG811103

Mode 2

Test Mode: CDMA2000 Cellular 850 CH1013_9.6Kbps Lower Band Edge for 1xEV-DO

Power State : High

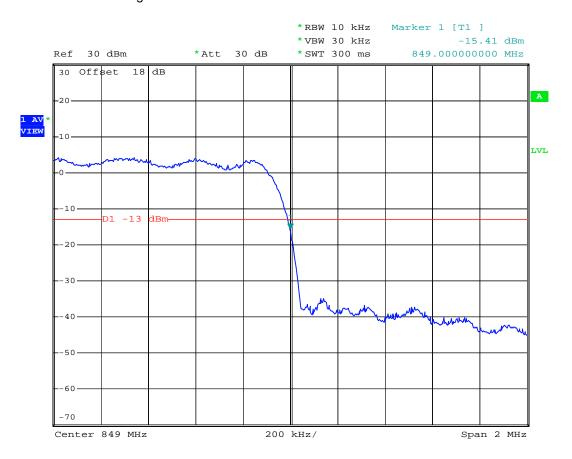


Date: 8.JUL.2007 06:06:16

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 22 of 79
Report Issued Date : Feb. 05, 2008
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• Test Mode: CDMA2000 Cellular 850 CH777_9.6Kbps Higher Band Edge for 1xEV-DO

· Power State : High

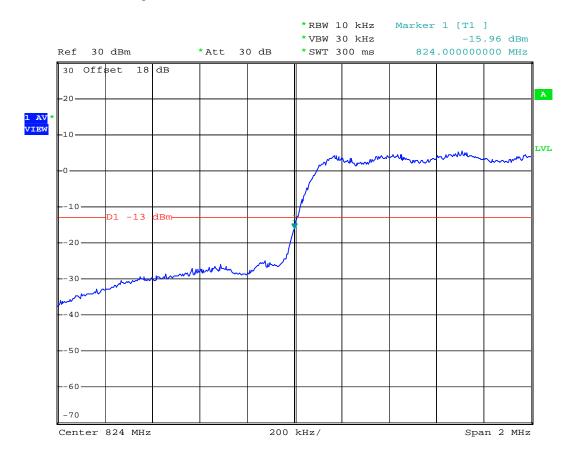


Date: 8.JUL.2007 06:07:39

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 23 of 79
Report Issued Date : Feb. 05, 2008
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Test Mode: CDMA2000 Cellular 850 CH1013_38.4Kbps Lower Band Edge for 1xEV-DO

Power State : High



Date: 8.JUL.2007 06:05:32

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 24 of 79
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Report No. : FG811103

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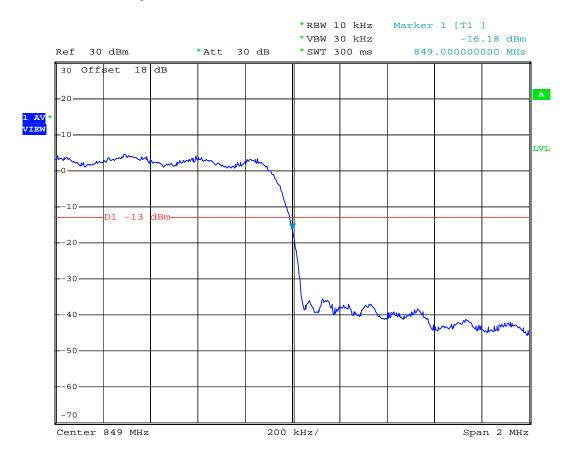
Report Issued Date : Feb. 05, 2008

Report Version : Rev. 02

Page Number

• Test Mode: CDMA2000 Cellular 850 CH777_38.4Kbps Higher Band Edge for 1xEV-DO

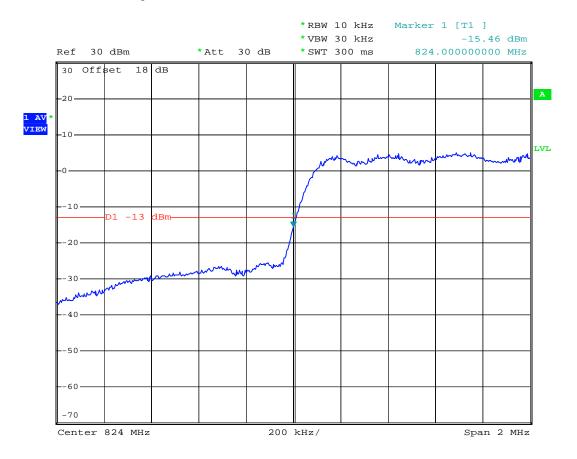
Power State : High



Date: 8.JUL.2007 06:08:38

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

- Test Mode: CDMA2000 Cellular 850 CH1013_153.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High



Date: 8.JUL.2007 06:03:51

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

Test Mode: CDMA2000 Cellular 850 CH384 99% Occupid Bandwidth for 1xEV-DO

Report No. : FG811103

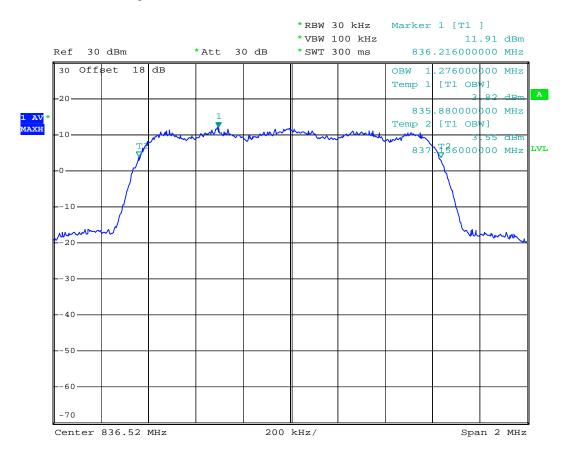
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Report Issued Date : Feb. 05, 2008

Report Version : Rev. 02

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Power State : High



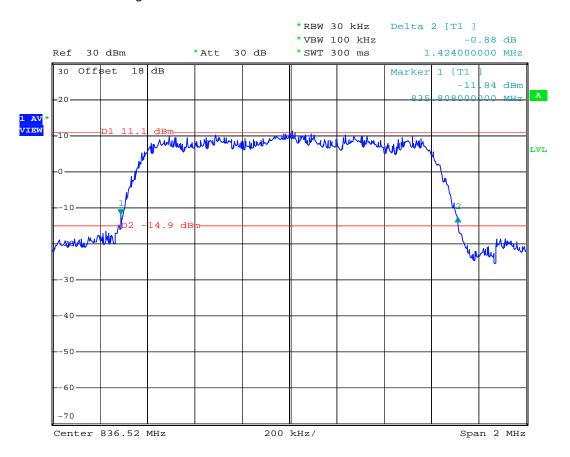
Date: 8.JUL.2007 10:01:29

FCC ID : UUU-L7E20070323

Report No. : FG811103

Test Mode: CDMA2000 Cellular 850 CH384 26 dB Bandwidth for 1xEV-DO

Power State : High

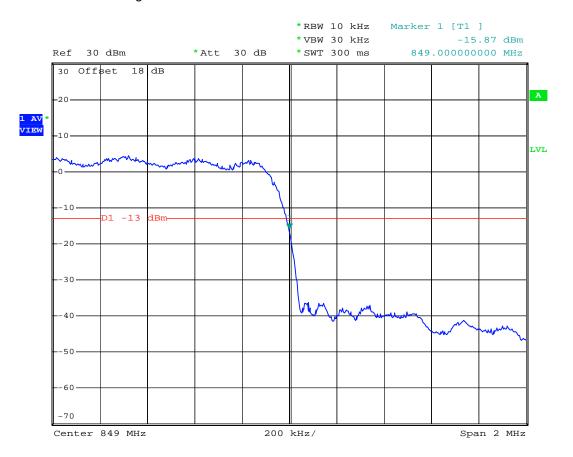


Date: 8.JUL.2007 10:05:26

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 28 of 79
Report Issued Date : Feb. 05, 2008
Report Version : Rev. 02

• Test Mode: CDMA2000 Cellular 850 CH777_153.6Kbps Higher Band Edge for 1xEV-DO

Power State : High



Date: 8.JUL.2007 06:09:18

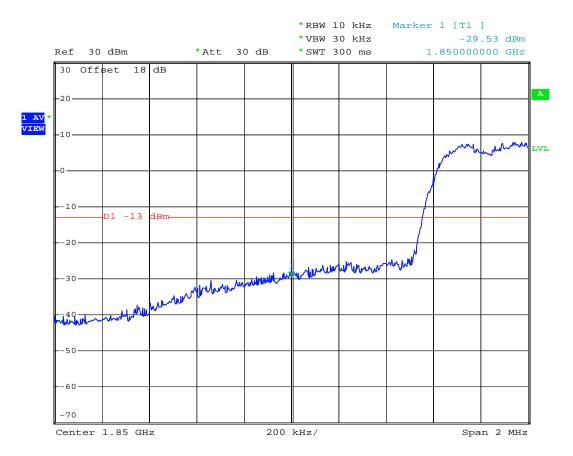
FCC ID : UUU-L7E20070323

FCC Test Report No. : FG811103

Mode 3

• Test Mode: CDMA2000 PCS 1900 Band CH25_FCH_RC1 Lower Band Edge for 1xRTT

Power State : High



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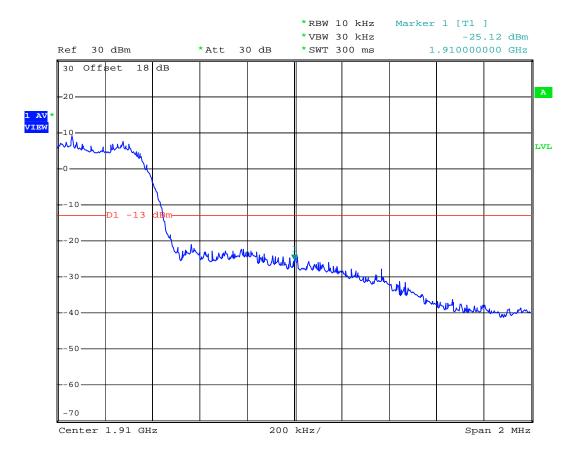
Page Number

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Date: 8.JUL.2007 06:20:03

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

- Test Mode: CDMA2000 PCS 1900 CH1175_FCH_RC1 Higher Band Edge for 1xRTT
- Power State : High

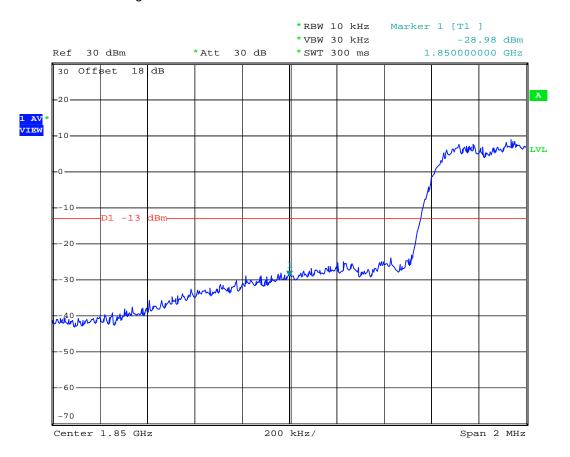


Date: 8.JUL.2007 06:16:21

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

• Test Mode: CDMA2000 PCS 1900 Band CH25_FCH_RC3 Lower Band Edge for 1xRTT

Power State : High

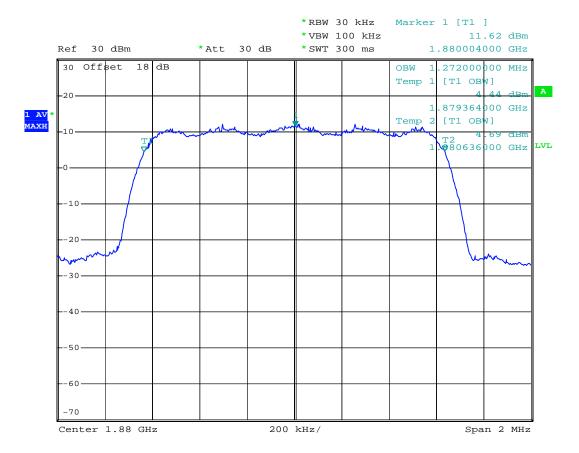


Date: 8.JUL.2007 06:20:59

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 Band CH600 99% Occupid Bandwidth for 1xRTT

Power State : High

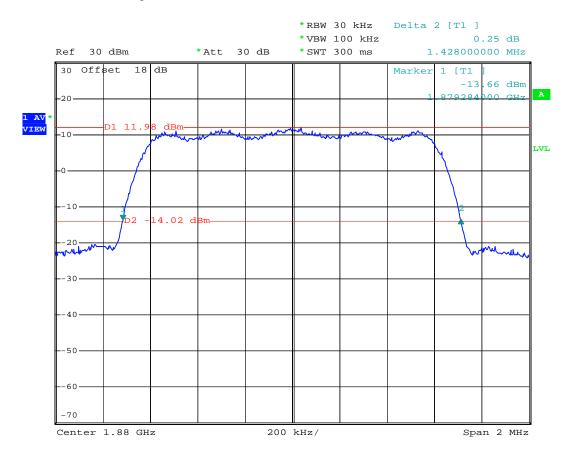


Date: 8.JUL.2007 07:18:05

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 33 of 79
Report Issued Date : Feb. 05, 2008
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Test Mode: CDMA2000 PCS 1900 Band CH600 26 dB Bandwidth for 1xRTT

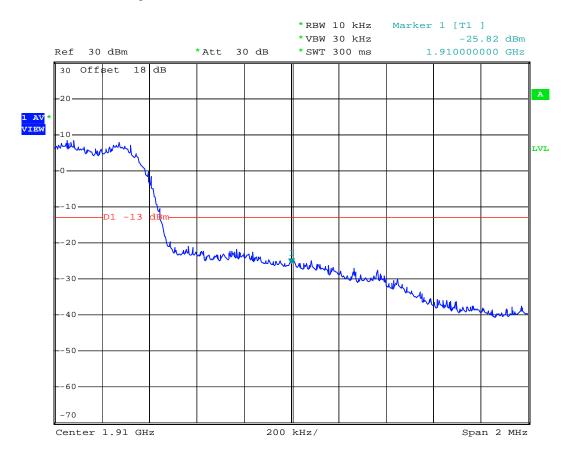
· Power State : High



Date: 8.JUL.2007 07:34:23

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 34 of 79
Report Issued Date : Feb. 05, 2008
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- Test Mode: CDMA2000 Cellular 850 CH1175_FCH_RC3 Higher Band Edge for 1xRTT
- · Power State : High

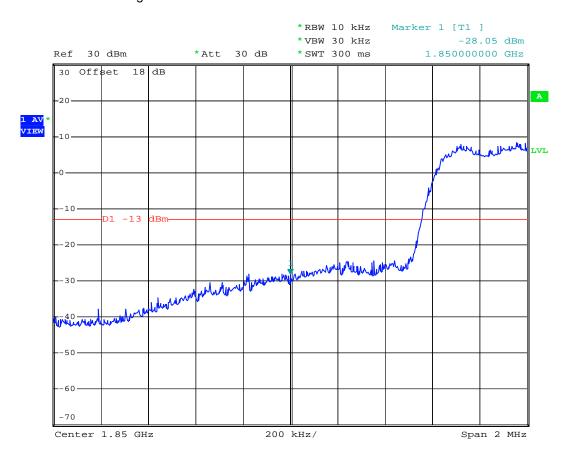


Date: 8.JUL.2007 06:17:18

FCC ID : UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 Band CH25_FCH+SCH_RC3 Lower Band Edge for 1xRTT

Power State : High

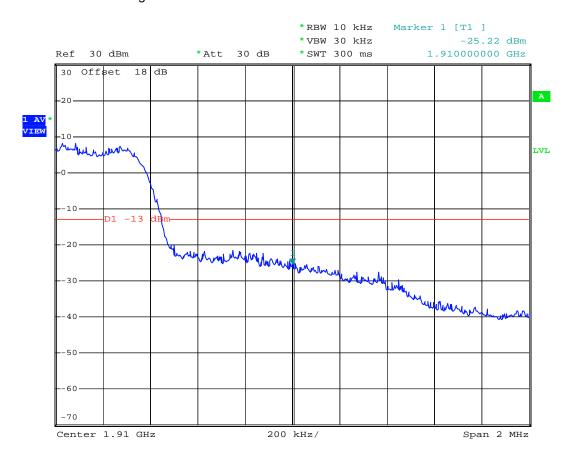


Date: 8.JUL.2007 06:19:09

FCC ID : UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 CH1175_FCH+SCH_RC3 Higher Band Edge for 1xRTT

Power State : High



Date: 8.JUL.2007 06:18:08

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 **Report No. : FG811103**

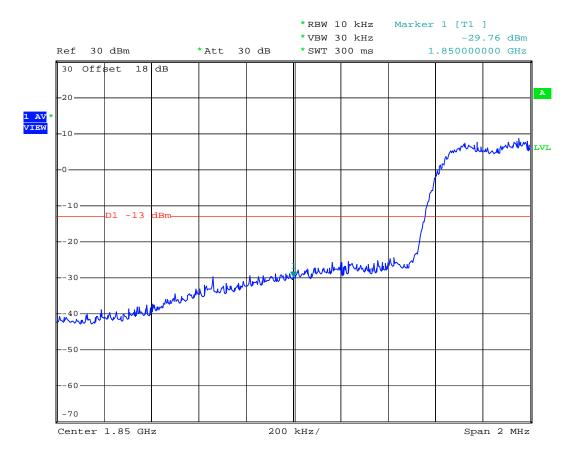
Report Version : Rev. 02

Report No. : FG811103

Mode 4

Test Mode: CDMA2000 PCS 1900 CH25_9.6Kbps Lower Band Edge for 1xEV-DO

Power State : High

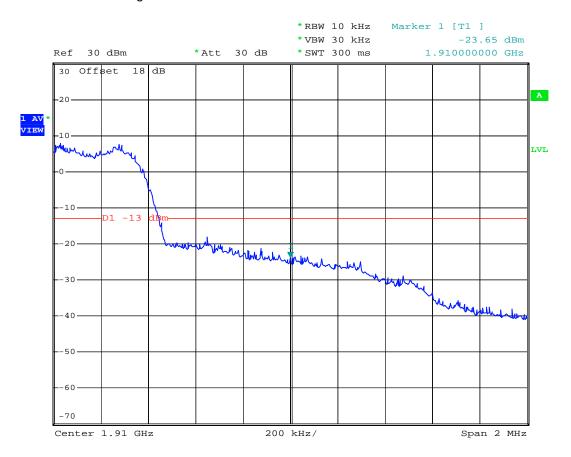


Date: 8.JUL.2007 06:12:17

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 38 of 79
Report Issued Date : Feb. 05, 2008
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Test Mode: CDMA2000 PCS 1900 CH1175_9.6Kbps Higher Band Edge for 1xEV-DO

Power State : High

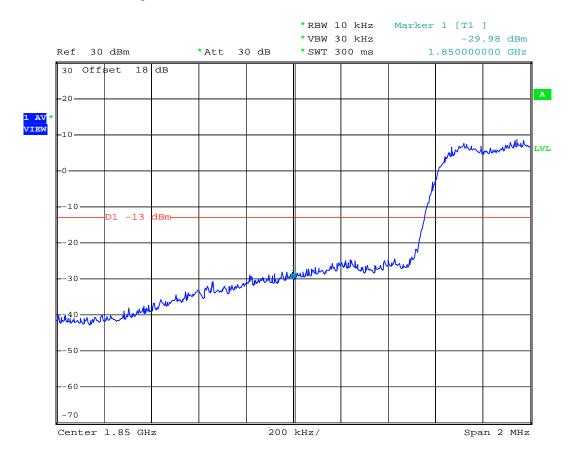


Date: 8.JUL.2007 06:14:05

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 CH25_38.4Kbps Lower Band Edge for 1xEV-DO

Power State : High

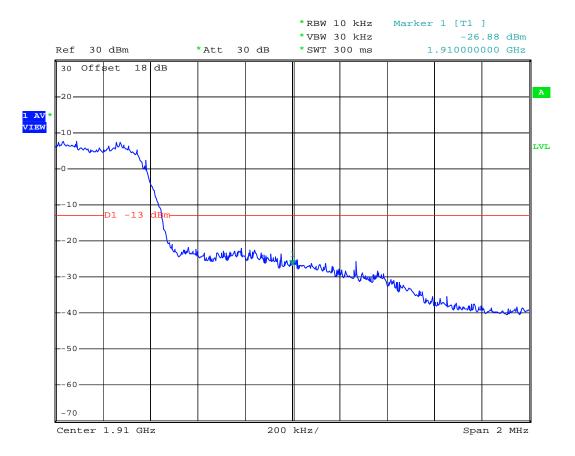


Date: 8.JUL.2007 06:11:38

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 40 of 79
Report Issued Date : Feb. 05, 2008
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Test Mode: CDMA2000 PCS 1900 CH1175_38.4Kbps Higher Band Edge for 1xEV-DO

Power State : High

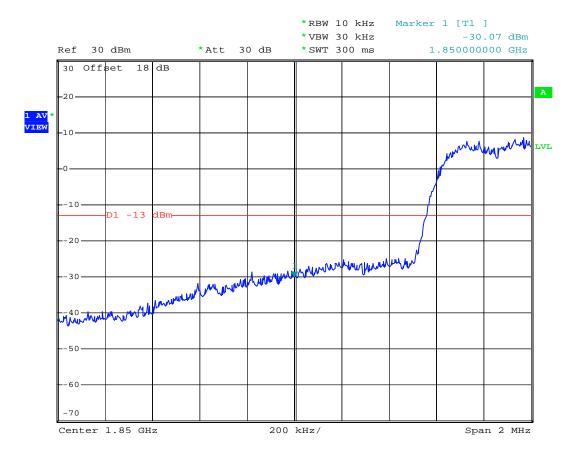


Date: 8.JUL.2007 06:14:49

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 41 of 79
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Test Mode: CDMA2000 PCS 1900 CH25_153.6Kbps Lower Band Edge for 1xEV-DO

Power State : High

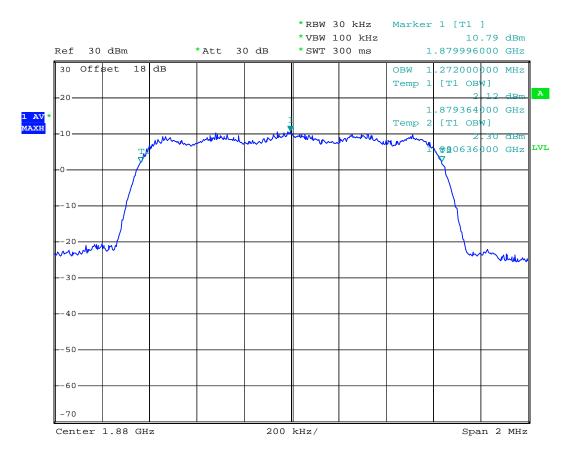


Date: 8.JUL.2007 06:10:39

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 CH600 99% Occupid Bandwidth for 1xEV-DO

Power State : High

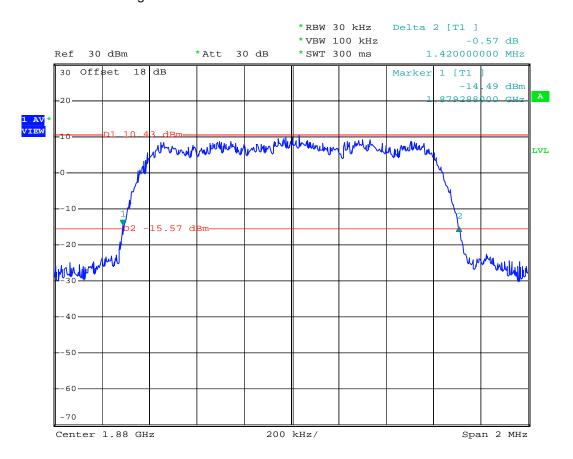


Date: 8.JUL.2007 10:13:13

FCC ID : UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 CH600 26 dB Bandwidth for 1xEV-DO

Power State : High

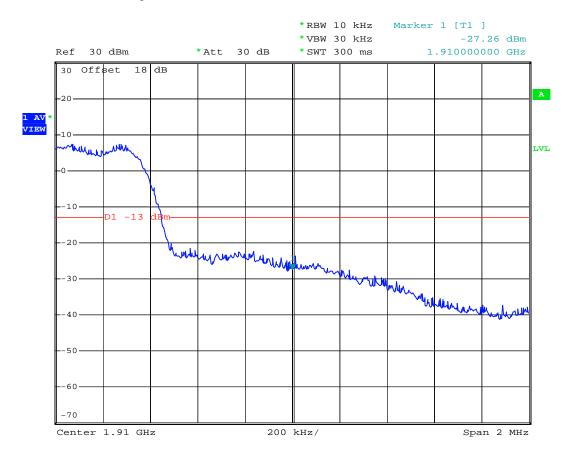


Date: 8.JUL.2007 10:14:47

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 CH1175_153.6Kbps Higher Band Edge for 1xEV-DO

Power State : High



Date: 8.JUL.2007 06:15:27

FCC ID : UUU-L7E20070323

4.5 Conducted Emission

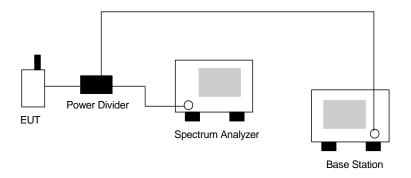
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The middle channel for the highest RF power within the transmitting frequency was measured.
- 3. The conducted spurious emission for the whole frequency range was taken.

4.5.3 Test Setup Layout



TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

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Report No. : FG811103

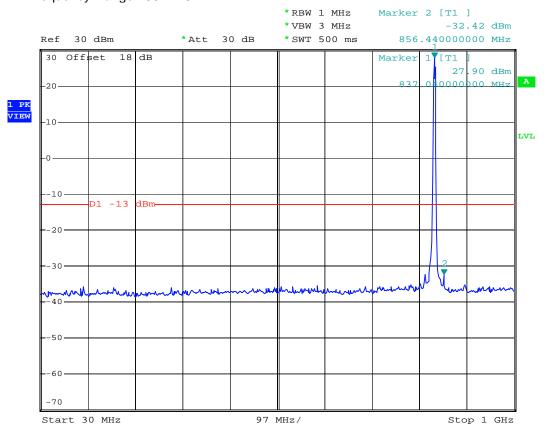
Report Version : Rev. 02

4.5.4 Test Result

Mode 1

Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT

Frequency Range : 30M-1G

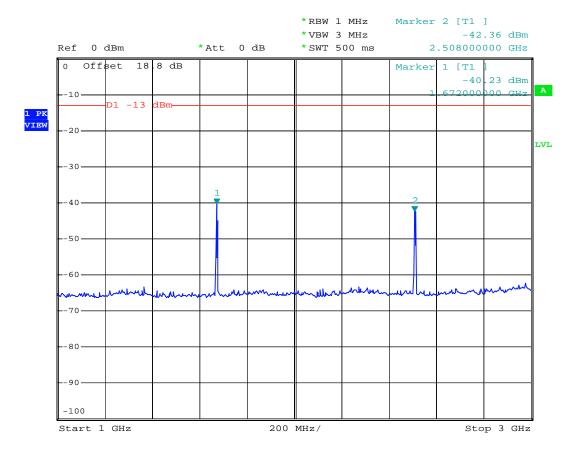


Date: 8.JUL.2007 07:48:19

FAX: 886-2-2696-2468 FCC ID: UUU-L7E20070323 Page Number : 47 of 79
Report Issued Date : Feb. 05, 2008
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Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT

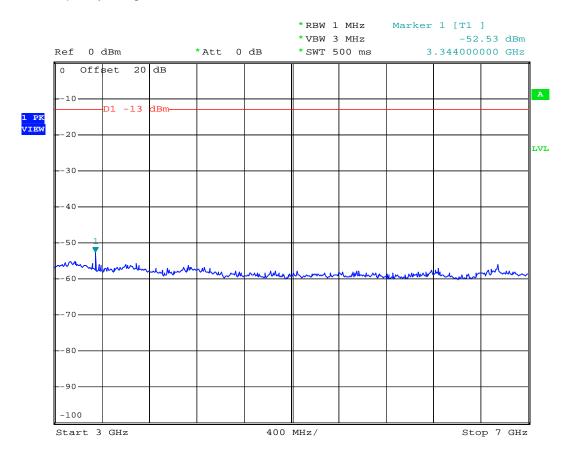
Frequency Range : 1G-3G



Date: 8.JUL.2007 07:51:59

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT

Frequency Range : 3G-7G



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Date: 8.JUL.2007 07:53:00

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

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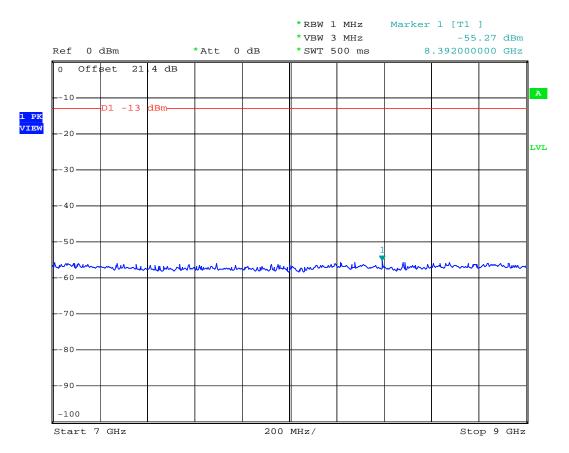
Report Issued Date : Feb. 05, 2008

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Test Mode: CDMA2000 Cellular 850 CH384 for 1xRTT

Frequency Range: 7G-9G

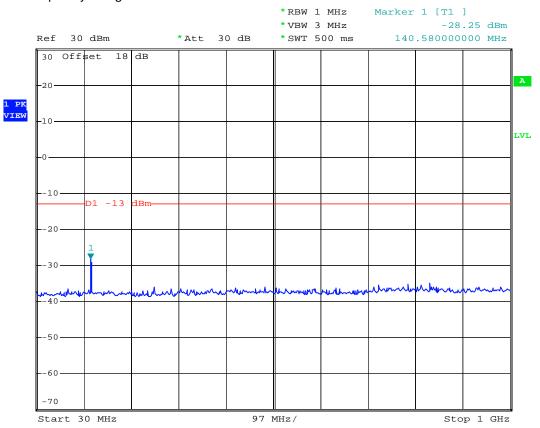


Date: 8.JUL.2007 07:57:13

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Mode 3

Test Mode: CDMA2000 PCS 1900 CH600 for 1xRTT

Frequency Range : 30M-1G

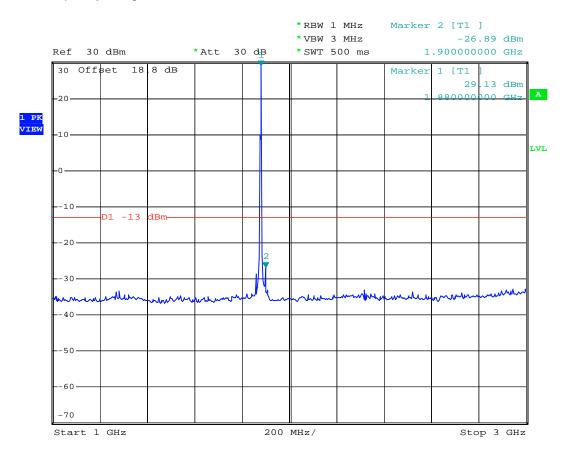


Date: 8.JUL.2007 07:47:03

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 51 of 79
Report Issued Date : Feb. 05, 2008
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Test Mode: CDMA2000 PCS 1900 CH600 for 1xRTT

Frequency Range : 1G-3G

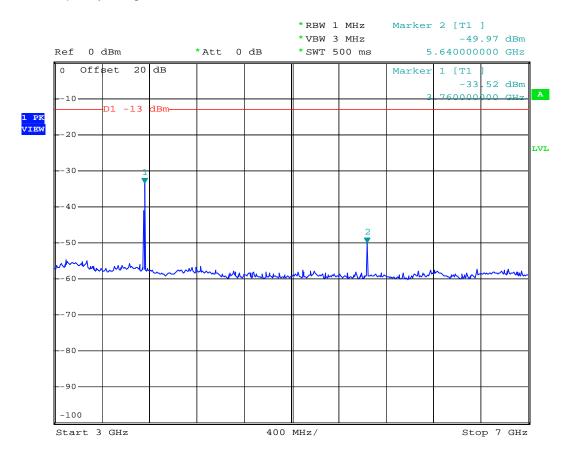


Date: 8.JUL.2007 07:50:03

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 CH600 for 1xRTT

Frequency Range : 3G-7G

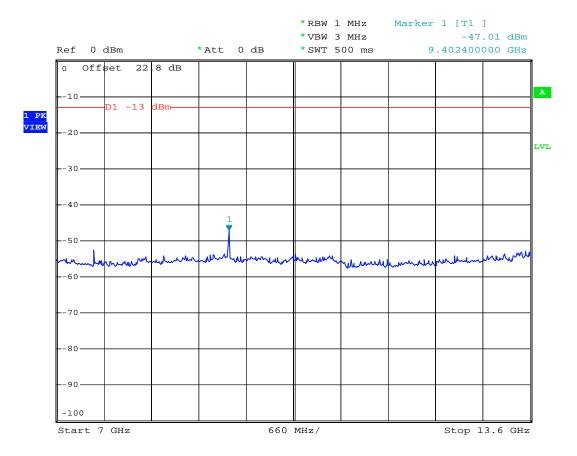


Date: 8.JUL.2007 07:54:16

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 CH600 for 1xRTT

• Frequency Range : 7G-13.6G

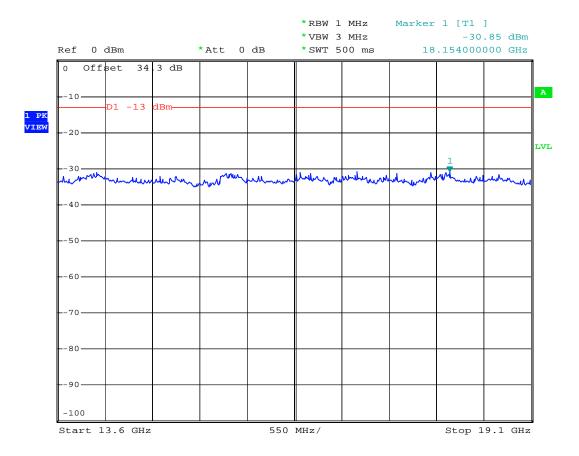


Date: 8.JUL.2007 07:55:51

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

Test Mode: CDMA2000 PCS 1900 CH600 for 1xRTT

Frequency Range: 13.6G-19.1G



Date: 8.JUL.2007 07:59:32

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323 Page Number : 55 of 79
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4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-C.

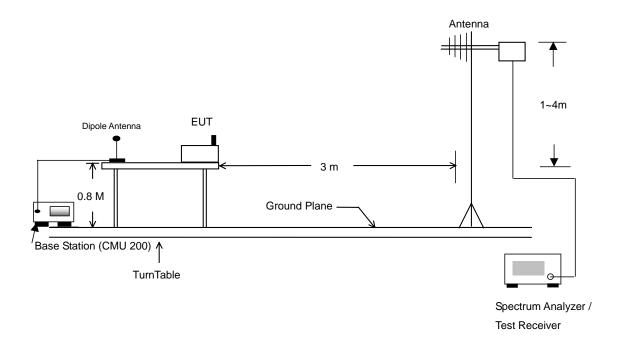
4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- 2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Taking the record of maximum spurious emission.
- 6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the recored of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polariztion.
- 10. Emission level (dBm) = output power + substituion Gain.

4.6.3 Test Setup Layout



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4.6.4Test Result

Test Mode: Mode 1

CDMA2000 Cellular 1xRTT_FCH+SCH_RC3_CH1013 Radiated Spurious ERP											
CDMA2	000 Cellular	1xRTT_I	FCH+SCH	_RC3_CH1013	Radiated Sp	urious E	RP				
	H Polarizati	on			V Polarizati	on					
Frequency		Limit	Margin	Frequency		Limit	Margin				
(MHz)	ERP (dBm)	(dBm)	(dB)	(MHz)	ERP (dBm)	(dBm)	(dB)				
30.000	-44.970	-13	-31.97	30.000	-47.850	-13	-34.85				
41.880	-46.310	-13	-33.31	71.580	-49.680	-13	-36.68				
157.440	-46.930	-13	-33.93	155.280	-44.890	-13	-31.89				
381.900	-62.020	-13	-49.02	379.800	-58.640	-13	-45.64				
1648.000	-49.540	-13	-36.54	1648.000	-43.900	-13	-30.90				
1738.000	-54.690	-13	-41.69	2474.000	-48.410	-13	-35.41				
6958.000	-41.670	-13	-28.67	3298.000	-49.440	-13	-36.44				
				6958.000	-39.660	-13	-26.66				

Test Mode: Mode 2

CDMA	CDMA2000 Cellular 1xRTT_FCH+SCH_RC3_CH384 Radiated Spurious ERP											
	H Polarizati	on			V Polarizati	on						
Frequency	ERP (dBm)	Limit	Margin	Frequency	ERP (dBm)	Limit	Margin					
(MHz)	EKP (UDIII)	(dBm)	(dB)	(MHz)	EKP (UDIII)	(dBm)	(dB)					
30.000	-44.620	-13	-31.62	30.000	-47.640	-13	-34.64					
41.340	-46.560	-13	-33.56	72.390	-49.860	-13	-36.86					
157.440	-47.090	-13	-34.09	156.090	-44.610	-13	-31.61					
817.300	-54.610	-13	-41.61	817.300	-56.430	-13	-43.43					
1674.000	-40.120	-13	-27.12	1674.000	-33.620	-13	-20.62					
1764.000	-52.890	-13	-39.89	2508.000	-40.410	-13	-27.41					
2508.000	-47.250	-13	-34.25	3344.000	-43.080	-13	-30.08					
3348.000	-48.300	-13	-35.30	4184.000	-46.120	-13	-33.12					
4178.000	-45.950	-13	-32.95	7054.000	-41.900	-13	-28.90					
7054.000	-39.450	-13	-26.45									

SPORTON International Inc.

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Report No. : FG811103

Report Version : Rev. 02

Test Mode : Mode 3

CDMA	CDMA2000 Cellular 1xRTT_FCH+SCH_RC3_CH777 Radiated Spurious ERP											
	H Polarizati	on			V Polarizati	on						
Frequency	ERP (dBm)	Limit	Margin	Frequency	ERP (dBm)	Limit	Margin					
(MHz)	EKP (UDIII)	(dBm)	(dB)	(MHz)	EKP (UDIII)	(dBm)	(dB)					
30.000	-44.520	-13	-31.52	30.000	-47.360	-13	-34.36					
41.340	-46.360	-13	-33.36	73.200	-49.910	-13	-36.91					
158.790	-46.900	-13	-33.90	156.630	-44.680	-13	-31.68					
372.800	-62.210	-13	-49.21	378.400	-58.300	-13	-45.30					
1698.000	-42.770	-13	-29.77	1698.000	-35.830	-13	-22.83					
1784.000	-53.730	-13	-40.73	2544.000	-40.660	-13	-27.66					
2544.000	-46.460	-13	-33.46	3394.000	-45.680	-13	-32.68					
3394.000	-49.520	-13	-36.52	4244.000	-46.370	-13	-33.37					
4244.000	-47.920	-13	-34.92	7144.000	-39.760	-13	-26.76					
7144.000	-37.880	-13	-24.88									

Test Mode: Mode 4

CDMA2000 PCS 1xRTT_FCH_RC3_CH25 Radiated Spurious EIRP											
	H Polarizati	on			V Polarizati	on					
Frequency	EIRP (dBm)	Limit	Margin	Frequency	EIRP (dBm)	Limit	Margin				
(MHz)	LIKE (UDIII)	(dBm)	(dB)	(MHz)	LIKE (UDIII)	(dBm)	(dB)				
30.000	-43.300	-13	-30.30	30.000	-45.930	-13	-32.93				
42.690	-46.560	-13	-33.56	72.930	-47.680	-13	-34.68				
159.330	-44.640	-13	-31.64	155.280	-43.080	-13	-30.08				
348.300	-57.770	-13	-44.77	386.800	-57.060	-13	-44.06				
374.900	-59.380	-13	-46.38	462.400	-60.220	-13	-47.22				
448.400	-60.570	-13	-47.57	535.900	-60.080	-13	-47.08				
1714.000	-50.260	-13	-37.26	1838.000	-41.910	-13	-28.91				
3698.000	-44.180	-13	-31.18	3704.000	-43.300	-13	-30.30				
5554.000	-30.710	-13	-17.71	5554.000	-28.930	-13	-15.93				
6864.000	-43.800	-13	-30.80	6864.000	-39.770	-13	-26.77				
7404.000	-42.130	-13	-29.13	7404.000	-40.180	-13	-27.18				
9254.000	-41.040	-13	-28.04	9254.000	-32.210	-13	-19.21				
11104.000	-40.260	-13	-27.26	11108.000	-38.840	-13	-25.84				
16662.000	-30.910	-13	-17.91	16659.000	-31.350	-13	-18.35				

SPORTON International Inc.

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Report Version : Rev. 02

Test Mode : Mode 5

rest wode . wode 5											
CI	MA2000 PC	S 1xRTT	_FCH_RC	3_CH600 Radia	ated Spurious	s EIRP					
	H Polarizati	on			V Polarizati	on					
Frequency	EIRP (dBm)	Limit	Margin	Frequency	EIRP (dBm)	Limit	Margin				
(MHz)	EIRF (ubili)	(dBm)	(dB)	(MHz)	CIKP (UDIII)	(dBm)	(dB)				
30.000	-43.220	-13	-30.22	30.000	-45.340	-13	-32.34				
42.690	-45.070	-13	-32.07	72.390	-47.780	-13	-34.78				
156.630	-44.840	-13	-31.84	155.280	-42.960	-13	-29.96				
379.800	-60.800	-13	-47.80	378.400	-56.280	-13	-43.28				
406.400	-60.850	-13	-47.85	402.900	-57.790	-13	-44.79				
878.900	-62.560	-13	-49.56	526.800	-59.940	-13	-46.94				
1744.000	-51.810	-13	-38.81	1838.000	-48.440	-13	-35.44				
3758.000	-42.800	-13	-29.80	3758.000	-38.350	-13	-25.35				
5638.000	-27.420	-13	-14.42	5224.000	-44.520	-13	-31.52				
6968.000	-41.140	-13	-28.14	5638.000	-26.370	-13	-13.37				
7518.000	-40.960	-13	-27.96	6968.000	-39.780	-13	-26.78				
9398.000	-41.650	-13	-28.65	7518.000	-35.600	-13	-22.60				
				9398.000	-38.750	-13	-25.75				

FCC ID : UUU-L7E20070323

Report No. : FG811103

Report Version : Rev. 02

Test Mode : Mode 6

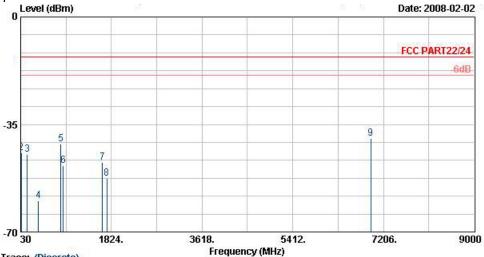
lest Mode : Mode 6											
CD	MA2000 PCS	1xRTT_	FCH_RC3	_CH1175 Radi	ated Spuriou	s EIRP					
	H Polarizati	on			V Polarizati	on					
Frequency	EIRP (dBm)	Limit	Margin	Frequency	EIRP (dBm)	Limit	Margin				
(MHz)	EINF (ubili)	(dBm)	(dB)	(MHz)	LIKE (UDIII)	(dBm)	(dB)				
30.000	-42.860	-13	-29.86	30.000	-45.780	-13	-32.78				
41.880	-44.460	-13	-31.46	71.310	-47.680	-13	-34.68				
157.980	-44.650	-13	-31.65	155.280	-42.500	-13	-29.50				
350.400	-62.850	-13	-49.85	376.300	-56.030	-13	-43.03				
374.900	-60.780	-13	-47.78	404.300	-57.550	-13	-44.55				
402.900	-61.080	-13	-48.08	526.800	-60.140	-13	-47.14				
1768.000	-50.570	-13	-37.57	1834.000	-48.880	-13	-35.88				
3814.000	-27.420	-13	-14.42	3818.000	-17.820	-13	-4.82				
5724.000	-27.780	-13	-14.78	5304.000	-43.840	-13	-30.84				
7068.000	-41.340	-13	-28.34	5724.000	-25.070	-13	-12.07				
7634.000	-37.340	-13	-24.34	7068.000	-41.130	-13	-28.13				
9544.000	-38.920	-13	-25.92	7634.000	-31.390	-13	-18.39				
11454.000	-37.580	-13	-24.58	9544.000	-37.310	-13	-24.31				
				11448.000	-38.950	-13	-25.95				
				15267.000	-35.180	-13	-22.18				

FCC ID : UUU-L7E20070323

FCC Test Report Report No. : FG811103

4.6.5 Test Data

4.6.5.1 Mode 1



Read

Site Condition EUT Power Model Mode Plane S/N Trace: (Discrete)
03CH06-HY
PCC PART22/24 EIRP-071107 HORIZONTAL
Electronic book
120Vac/50Hz
FG 811103
CDMA2000 Cellular Link;Chl013 + Adaptor
El
B001BAB074430203

Freq	Level	Limit	Line	Level	Factor	Remark
MHz	dBm	dB	dBm	dB™	dB	
30.00	-42.82	-29.82	-13.00	-43.18	0.36	Peak
41.88	-44.16	-31.16	-13.00	-37.22	-6.95	Peak
157. 44	-44.78	-31.78	-13.00	-31.88	-12.90	Peak
381.90	-59.87	-46.87	-13.00	-52.77	-7.10	Peak
824. 30	-41.33			-39.87	-1.46	Peak
869. 80	-48.39			-47.38	-1.02	Peak
1648.00	-47.39	-34.39	-13.00	-52.56	5.17	Peak
1738.00	-52.54	-39.54	-13.00	-58.37	5.83	Peak
6958.00	-39.52	-26.52	-13.00	-56.70	17.18	Peak

Over Limit

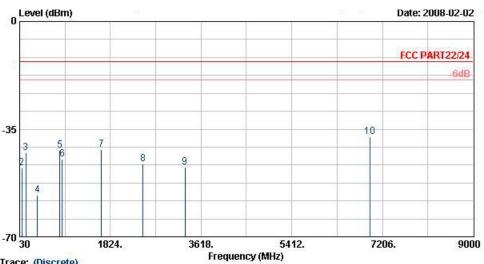
Remark:

123456789

- 1. #5: MS Signal
- 2. #6: BS Signal
- 3. There's no more obvious spurious emission except the listings above.

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FAX: 886-2-2696-2255
FCC ID: UUU-L7E20070323

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Trace: (Discrete)
03CH06-HY
FCC PART22/24 EIRP-071107 VERTICAL
Electronic book
120Vac/60Hz
FC 811103
CDMA2000 Cellular Link;Chl013 + Adaptor
El
B001BAB074430203

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dB™	dB	
1 2				-13.00 -13.00			
2 3 4 5 6	155. 28	-42.74	-29.74	-13.00 -13.00	-34.55	-8.19	Peak
5	824. 30	-41.92	40.40	-10.00	-43.18	1.26	Peak
6 7	869. 80 1648. 00	-44. 76 -41. 75	-28. 75	-13.00		1.63 5.17	Peak Peak
8	2474.00 3298.00	-46. 26 -47. 29	-33, 26 -34, 29		-56.37 -59.38	10.11 12.09	T. 05.50.50
10 @	6958.00	-37.51	-24.51	-13.00	-54.68	17.18	Peak

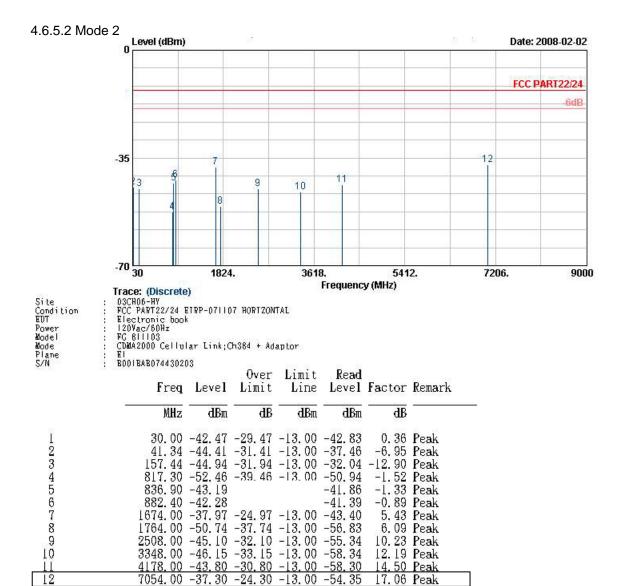
Remark:

- 1. #5: MS Signal
- 2. #6: BS Signal
- 3. There's no more obvious spurious emission except the listings above.

SPORTON International Inc.TEL: 886-2-2696-2468
FAX: 886-2-2696-2255
FCC ID: UUU-L7E20070323

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Report Issued Date : Feb. 05, 2008
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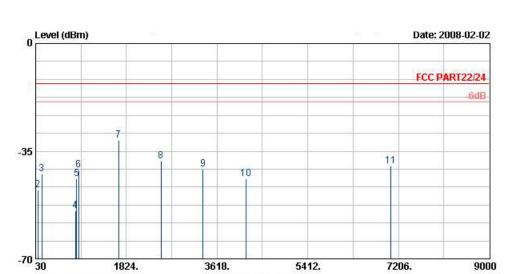
Remark:

12

- 1. #5: MS Signal #6: BS Signal 2.
- There is no more obvious emission except the listings above.

SPORTON International Inc. TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

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Frequency (MHz)

5412.

7206.

3618.

Site Condition EUT Power Model Mode Plane S/N

Trace: (Discrete)
03CH06-HY
FCC PART22/24 EIRP-071107 VERTICAL
Electronic book
120Vac/60Hz
FC 811103
CDMA2000 Cellular Link;Ch384 + Adaptor
El
B001BAB074430203

1824.

	BUULBABU/443UZI	73	Λ	13232	04			
	Freq	Level				Factor	Remark	
	MHz	dBm	dB	dB m	dBm	dB		
	30.00	-45. 49	-32. 49	-13.00	-36. 42	-9.07	Peak	
	72. 39	-47.71	-34.71	-13.00	-36.11	-11.60	Peak	
	156.09	-42.46	-29.46	-13.00	-34.26	-8.20	Peak	
	817.30	-54.28	-41.28	-13.00	-55.49	1.21	Peak	
	836.90	-44.08			-45.44	1.36	Peak	
	880.30	-41.04			-42.75	1.71	Peak	
@	1674.00	-31.47	-18.47	-13.00	-36.90	5.43	Peak	
	2508.00	-38.26	-25.26	-13.00	-48.49	10.23	Peak	
	3344.00	-40.93	-27.93	-13.00	-53.13	12.19	Peak	
	4184.00	-43.97	-30.97	-13.00	-58.47	14.50	Peak	
	; @	##Freq 30.00 72.39 156.09 817.30 836.90 880.30 1674.00 2508.00 3344.00 4184.00	MHz dBm 30.00 -45.49 72.39 -47.71 156.09 -42.46 817.30 -54.28 836.90 -44.08 880.30 -41.04 1674.00 -31.47 2508.00 -38.26 3344.00 -40.93 4184.00 -43.97	Freq Level Limit MHz dBm dB 30.00 -45.49 -32.49 72.39 -47.71 -34.71 156.09 -42.46 -29.46 817.30 -54.28 -41.28 836.90 -44.08 880.30 -41.04 1674.00 -31.47 -18.47 2508.00 -38.26 -25.26 3344.00 -40.93 -27.93 4184.00 -43.97 -30.97	Freq Level Cumit Limit Line MHz dBm dB dBm 30.00 -45.49 -32.49 -13.00 72.39 -47.71 -34.71 -13.00 156.09 -42.46 -29.46 -13.00 817.30 -54.28 -41.28 -13.00 836.90 -44.08 880.30 -41.04 1674.00 -31.47 -18.47 -13.00 2508.00 -38.26 -25.26 -13.00 3344.00 -40.93 -27.93 -13.00 4184.00 -43.97 -30.97 -13.00	Freq Level Limit Line Level MHz dBm dB dBm dBm dBm dBm 30.00 -45.49 -32.49 -13.00 -36.42 72.39 -47.71 -34.71 -13.00 -36.11 156.09 -42.46 -29.46 -13.00 -34.26 817.30 -54.28 -41.28 -13.00 -55.49 836.90 -44.08 -45.44 880.30 -41.04 -42.75 68 1674.00 -31.47 -18.47 -13.00 -36.90 2508.00 -38.26 -25.26 -13.00 -48.49 3344.00 -40.93 -27.93 -13.00 -53.13 4184.00 -43.97 -30.97 -13.00 -58.47	Freq Level Limit Line Level Factor MHz dBm dB dB dBm dBm dBm dBm dB 30.00 -45.49 -32.49 -13.00 -36.42 -9.07 72.39 -47.71 -34.71 -13.00 -36.11 -11.60 156.09 -42.46 -29.46 -13.00 -34.26 -8.20 817.30 -54.28 -41.28 -13.00 -55.49 1.21 836.90 -44.08 -45.44 1.36 880.30 -41.04 -42.75 1.71 1674.00 -31.47 -18.47 -13.00 -36.90 5.43 2508.00 -38.26 -25.26 -13.00 -48.49 10.23 3344.00 -40.93 -27.93 -13.00 -53.13 12.19 4184.00 -43.97 -30.97 -13.00 -58.47 14.50	Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm dB dBm dB 30.00 -45.49 -32.49 -13.00 -36.42 -9.07 Peak 72.39 -47.71 -34.71 -13.00 -36.11 -11.60 Peak 156.09 -42.46 -29.46 -13.00 -34.26 -8.20 Peak 817.30 -54.28 -41.28 -13.00 -55.49 1.21 Peak 836.90 -44.08 -45.44 1.36 Peak 880.30 -41.04 -42.75 1.71 Peak 1674.00 -31.47 -18.47 -13.00 -36.90 5.43 Peak 2508.00 -38.26 -25.26 -13.00 -48.49 10.23 Peak 3344.00 -40.93 -27.93 -13.00 -58.47 14.50 Peak 4184.00 -43.97 -30.97 -13.00 -58.47 14.50 Peak

Remark:

- 1. #5: MS Signal
- 2. #6: BS Signal
- 3. There is no more obvious emission except the listings above.

SPORTON International Inc. TEL: 886-2-2696-2468

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

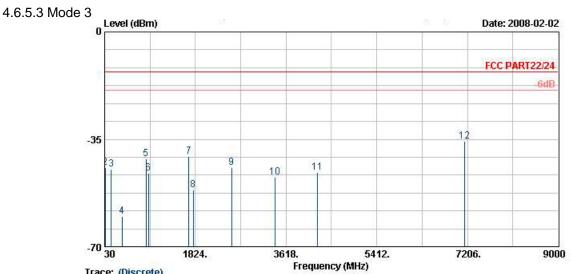
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Report No. : FG811103

9000

Report Version : Rev. 02





Site	
~	
Condition	
EUT	
EUI	
Power	
Model	
Mode	
Plane	
riane	
C/M	

Trace: (Discrete)
03CH06-HY
FCC PART22/24 EIRP-071107 HORIZONTAL
Electronic book
120Vac/60Hz
FC 811103
CDMA2000 Cellular Link;Ch777 + Adaptor
El
B001BAB074430203

	Freq	Level	Over Limit		Read Level	Factor	Remark
	MHz	dB m	dB	₫₿m	dB m	dB	
Ĩ	30.00	-42.37	-29. 37	-13.00	-42. 73	0.36	Peak
2	41.34	-44.21	-31.21	-13.00	-37.26	-6.95	Peak
3	158. 79	-44.75	-31.75	-13.00	-31.83	-12.92	Peak
4	372.80	-60.06	-47.06	-13.00	-52.62	-7.44	Peak
5	847. 40	-41.43			-40.19	-1.23	Peak
6	892.90	-46.04			-45.25	-0.79	Peak
7	1698.00	-40.62	-27.62	-13.00	-46.19	5.57	Peak
8	1784.00	-51.58	-38.58	-13.00	-57.81	6.22	Peak
23456789	2544.00	-44.31	-31.31	-13.00	-54.63	10.32	Peak
10	3394.00	-47.37	-34.37	-13.00	-59.67	12.29	Peak
11	4244.00	-45.77	-32.77	-13.00	-60.42	14.65	Peak
12	7144.00		-22.73	-13.00	-52.82	17.08	

Remark:

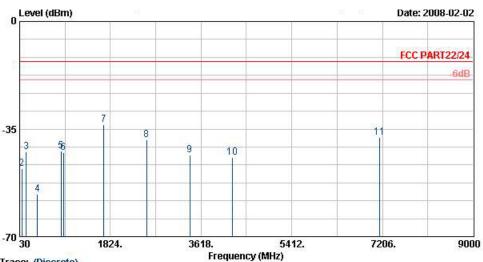
- #5: MS Signal
 #6: BS Signal
- 3. There's no more obvious spurious emission except the listings above.

SPORTON International Inc. TEL: 886-2-2696-2468

FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

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Trace: (Discrete)
03CH06-HY
FCC PART22/24 EIRP-071107 VERTICAL
Electronic book
120Vac/60Hz
FC 811103
CDMA2000 Cellular Link;Ch777 + Adaptor
El
B001BAB074430203

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dB m		dB m	dBm	<u>dB</u>	
Ï	30.00	-45. 21	-32. 21	-13.00	-36.14	-9.07	Peak
1234567890	73. 20	-47.76	-34.76	-13.00	-36.30	-11.46	Peak
3	156.63	-42.53	-29.53	-13.00	-34.33	-8.21	Peak
4	378.40	-56.15	-43.15	-13.00	-51.36	-4.78	Peak
5	847. 40	-42.09			-43.53	1.45	Peak
6	892. 90	-42.70			-44.51	1.81	Peak
7 @	1698.00	-33.68	-20.68	-13.00	-39.25	5.57	Peak
8	2544.00	-38.51	-25.51	-13.00	-48.83	10.32	Peak
9	3394.00	-43.53	-30.53	-13.00	-55.82	12.29	Peak
10	4244.00	-44.22	-31.22	-13.00	-58.87	14.65	Peak
11	7144.00	-37.61	-24.61	-13.00	-54.69	17.08	Peak

Remark:

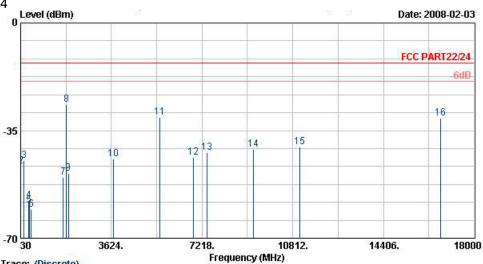
- 1. #5: MS Signal
- 2. #6: BS Signal
- 3. There is no more obvious emission except the listings above.

SPORTON International Inc. TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

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Trace: (Discrete)
03CH06-HY
FCC PART22/24 EIRP-071107 HORIZONTAL
Electronic book
120Vac/60Hz
FC 811103
CDMA2000 PCS Link;Ch25 + Adaptor
El
B001BAB074430203

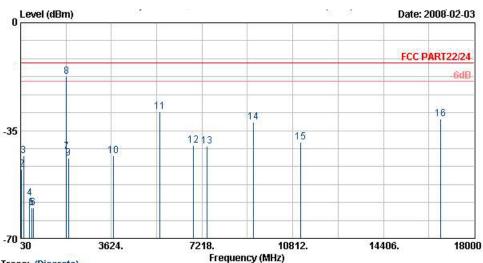
				0ver	Limit	Read		
		Freq	Level	Limit	Line		Factor	Remark
		MHz	dBm	dB	dB™	dBm	dB	
Ï	@	30.00	-43.30	-30.30	-13.00	-43.66	0.36	Peak
2	@	42.69	-46.56	-33.56	-13.00	-39.00	-7.56	Peak
3	@	159.33	-44.64	-31.64	-13.00	-31.72	-12.92	Peak
2 3 4 5 6 7	@	348.30	-57.77	-44.77	-13.00	-49.50	-8.27	Peak
5	453	374.90	-59.38	-46.38	-13.00	-52.04	-7.34	
6		448.40	-60.57	-47.57	-13.00	-54.74	-5.83	Peak
7	@	1714.00	-50.26	-37.26	-13.00	-55.96		
	@	1848.00	-26.65			-33.40	6.75	Peak
9	@	1928.00	-49.02			-56.42		Peak
10	(å	3698.00	-44.18	-31.18	-13.00	-57.33	13.15	Peak
11	<u>@</u>	5554.00	-30.71	-17.71	-13.00	-47.58	16.87	Peak
12	@	6864.00	-43.80	-30.80	-13.00	-61.20		Peak
13	@	7404.00	-42.13	-29.13	-13.00	-59.31	17.17	Peak
14	@	9254.00	-41.04	-28.04	-13.00	-60.34	19.30	Peak
15	Õ.	11104.00	-40.26	-27.26	-13.00	-62.21	21.95	Peak
16	@	16662, 00	-30.91		-13.00		28, 99	

Remark:

- 1. #8: MS Signal
- 2. #9: BS Signal
- 3. There is no more obvious emission except the listings above.

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Trace: (Discrete)

03CH06-HY
FCC PART22/24 EIRP-071107 VERTICAL
Electronic book
120Vac/60Hz
FG 81103
CDMA2000 PCS Link;Ch25 + Adaptor
El
B001BAB074430203

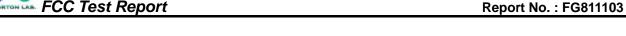
	2.2	Freq		Over Limit	Limit Line	Read Level	Factor	Remark
		MHz	₫₿m	dB	₫₿m	dB™	dB	
1 2 3 4 5 6 7 8 9 10 11 2 3 14 15 3	28888888888888888888888888888888888888	155. 28 386. 80 462. 40 535. 90 1838. 00 1848. 00 1928. 00 3704. 00 5554. 00 6864. 00 7404. 00 9254. 00	-47. 68 -43. 08 -57. 06 -60. 22 -60. 08 -41. 91 -17. 34 -43. 87 -43. 30 -28. 93 -39. 77 -40. 18 -32. 21 -38. 84	-34.68 -30.08 -44.06 -47.22 -47.08 -28.91 -30.30 -15.93 -26.77 -27.18 -19.21 -25.84	-13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	-36.08 -34.89 -52.46 -56.64 -57.39 -48.52 -24.08 -51.27 -56.45 -45.80 -57.17 -57.35 -51.51 -60.78	-11.60 -8.19 -4.60 -3.58 -2.70 6.62 6.75 7.40 13.15 16.87 17.40 17.17 19.30 21.94	Peak Peak Peak Peak Peak Peak Peak Peak
16	@ .	16659.00	-31.35	-18.35	-13.00	-60.34	28. 99	Peak

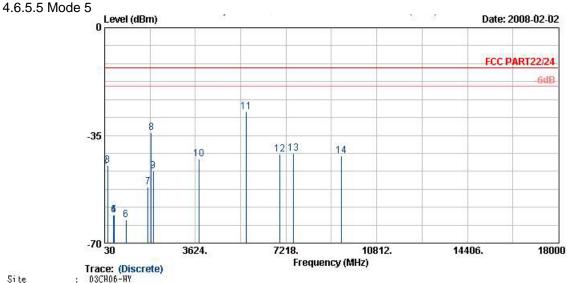
Remark:

- 1. #8: MS Signal
- 2. #9: BS Signal
- 3. There is no more obvious emission except the listings above.

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FAX: 886-2-2696-2255
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Trace: (Discrete)
03CH06-HY
PCC PART22/24 EIRP-071107 HORIZONTAL
Electronic book
120Vac/60Hz
FG 811103
CDMA2000 PCS Link;Ch600 + Adaptor
El
B001BAB074430203
Over L

/ IN	: BUULBABU1443UZ	V3	0	1	D			
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark	
	MHz	₫₿m	dB	dBm	dBm	dB		-
I	30.00	-43. 22	-30. 22	-13.00	-43.58	0.36	Peak	
2	42.69	-45.07	-32.07	-13.00	-37.52	-7.56	Peak	
3	156, 63	-44.84	-31.84	-13.00	-31.94	-12.90	Peak	
23456789	379, 80	-60.80	-47.80	-13.00	-53.63	-7.17	Peak	
5	406, 40	-60.85	-47.85	-13.00	-54.45	-6.41	Peak	
6	878.90	-62.56	-49.56	-13.00	-61.63	-0.93	Peak	
7	1744.00							
8	1878.00					7.01		
9	1958, 00	2707-1-0-0-0				7.54		
10	3758.00	-42.80	-29.80	-13.00			T. 1 (1) (1) (1)	
ĨĬ	5638.00							
ĨŽ	6968.00							
13	7518.00							
14	9398.00					18. 79		

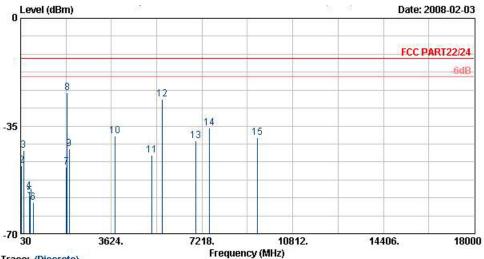
Remark:

- 1. #8: MS Signal
- 2. #9: BS Signal
- 3. There is no more obvious emission except the listings above.

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Trace: (Discrete)

03CH06-HY
FCC PART22/24 EIRP-071107 VERTICAL
Electronic book
120Vac/60Hz
FG 611103
CDMA2000 PCS Link;Ch600 + Adaptor
El
B001BAB074430203

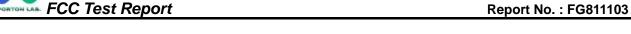
S/N	; B001BAB0744302	101. 21. 22.	.Over	Limit	Read	2	2 3
	Freq	Level	Limit	Line	Level	Factor	Kemark
	MHz	dBm	dB	dBm	dBm	dB	
I	30.00		-32.34			-9.07	
23456789 10		-47.78		-13.00		-11.60	
3		-42.96		-13.00		-8.19	
4		-56.28		-13.00		-4.78	
5		-57. 79	-44. 79	-13.00	-53. 49	-4.30	
6			-46.94			-2.81	
7	1838.00	-48.44	-35.44	-13.00	-55.05	6.62	Peak
8 @	1878.00	-24.19			-31.20	7.01	Peak
9	1958.00	-42.46			-50.00	7.54	Peak
10	3758.00	-38.35	-25.35	-13.00	-51.67	13.32	
	5224.00	-44.52	-31.52	-13.00	-60.76	16.24	Peak
12	5638.00	-26.37	-13.37	-13.00	-43.41	17.03	Peak
13	6968.00	-39.78	-26.78	-13.00	-56.91	17.13	Peak
14		-35.60	-22.60	-13.00	-52.90	17.31	Peak
15	9398.00	-38.75	-25.75	-13.00	-57.54	18.79	Peak

Remark:

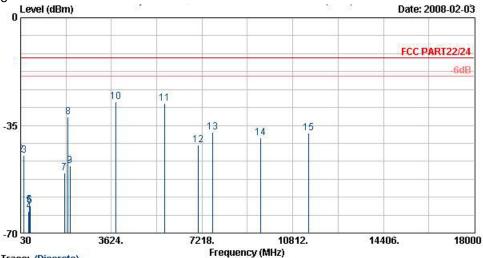
- #8: MS Signal
 #9: BS Signal
- 3. There is no more obvious emission except the listings above.

SPORTON International Inc. TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UUU-L7E20070323

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Read

Site Condition EUT Power Model Mode Plane S/N

Trace: (Discrete)
03CH06-HY
PCC PART22/24 EIRP-071107 HORIZONTAL
Electronic book
120Vac/60Hz
PG 811103
CDMA2000 PCS Link;Ch1175 + Adaptor
El
B001BAB074430203
Over L

		Freq	Level	Limit	Line	Level	Factor	Remark	
		MHz	dBm	dB	dB m	dBm	dB		
Î	@	30.00	-42.86	-29.86	-13.00	-43. 22	0.36	Peak	
2	(A)	41.88	-44.46	-31.46	-13.00	-37.51	-6.95	Peak	
3	Ø.	157. 98	-44.65	-31.65	-13.00	-31.74	-12.91	Peak	
23456789	医复复复复复复复	350.40	-62.85	-49.85	-13.00	-54.65	-8.21	Peak	
5	Ø.	374.90	-60.78	-47.78	-13.00	-53.45			
6	@	402.90	-61.08	-48.08	-13.00	-54.62			
7	Ø.	1768.00	-50.57	-37.57	-13.00	-56.66	6.09	Peak	
8	@	1908.00	-32.27			-39.42			
9	@	1988.00	-48.10			-55.90	7.80	Peak	
10	@	3814.00	-27.42	-14.42	-13.00	-40.96			
Π	@	5724.00	-27.78	-14.78	-13.00	-44.98	17.20	Peak	
12	@	7068.00	-41.34	-28.34	-13.00	-58.40	17.06	Peak	
13	@	7634.00	-37.34	-24.34	-13.00	-55.40	18.06		
14	@	9544.00		-25.92	-13.00	-57.51	18.59	Peak	
14 15	(d)	11454.00				-59.29	21.71		

Over Limit

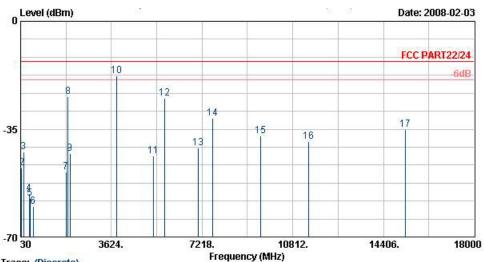
Remark:

- 1. #8: MS Signal
- 2. #9: BS Signal
- 3. There is no more obvious emission except the listings above.

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Trace: (Discrete)
03CH06-HV
FCC PART22/24 EIRP-071107 VERTICAL
Electronic book
120Vac/60Hz
FG 811103
CDMA2000 PCS Link;Chl175 + Adaptor
El
B001BAB074430203

Sec. 10.	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	d B	dBm	dBm	dB	
1 @	30.00	-45. 78	-32. 78	-13.00	-36.71	-9.07	Peak
2345678	71.31	-47.68	-34.68	-13.00	-35.93	-11.74	Peak
3 @	155. 28	-42.50	-29.50	-13.00	-34.32	-8.19	Peak
4345678	376.30	-56.03	-43.03	-13.00	-51.20	-4.83	Peak
5 @	404.30	-57.55	-44.55	-13.00	-53.28	-4.27	Peak
6 @	526.80	-60.14	-47.14	-13.00	-57.33	-2.81	Peak
7 @	1834.00		-35.88	-13.00	-55.50		Peak
8 @	1908.00	-24.38			-31.53	7.14	Peak
9 @	1988.00	-43.03			-50.83	7.80	Peak
10 @	3818.00	-17.82	-4.82	-13.00	-31.36	13.54	Peak
11 @	5304.00	-43.84	-30.84	-13.00	-60.24	16.39	Peak
12 @	5724.00	-25.07	-12.07	-13.00	-42.27	17.20	Peak
13 @	7068.00	-41.13	-28.13	-13.00	-58.19	17.06	Peak
14 @	7634.00	-31.39	-18.39	-13.00	-49.45	18.06	Peak
15 @	9544.00	-37.31	-24.31	-13.00	-55.90	18.59	Peak
16 @	11448.00	-38.95	-25.95	-13.00	-60.65	21.71	Peak
17 @	15267.00	-35.18	-22.18	-13.00	-61.59	26.41	Peak

17 Remark:

- 1. #8: MS Signal
- 2. #9: BS Signal
- 3. There is no more obvious emission except the listings above.

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4.7 Frequency Stability (Temperature Variation)

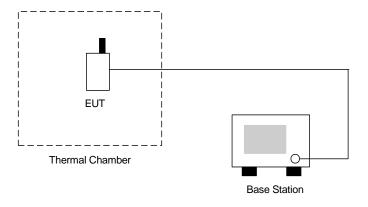
4.7.1 Measurement Instrument

As decribed in chapter 5 of this test report.

4.7.2 Test Procedure

- 1. The EUT and test equipment were set up as shown on the following section.
- 2. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
- 3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change ws noted within one minute.
- 4. The temperature tests were performed for the worst case.
- 5. Test data was recorded.

4.7.3 Test Setup Layout



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4.7.4 Test Result

Test Mode : CDMA2000 Cellular 1xRTT FCH+SCH_RC3 CH384

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-61	-0.07		
-20	-26	-0.03		
-10	-18	-0.02		
0	-12	-0.01		Passed
10	-9	-0.01	2.5	
20	8	0.01		
30	14	0.02		
40	-12	-0.01		
50	28	0.03		

Test Mode: CDMA2000 Cellular 1xEV-DO 153.6Kbps CH384

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-31	-0.04		
-20	-24	-0.03		
-10	-18	-0.02		
0	11	0.01		Passed
10	-8	-0.01	2.5	
20	-14	-0.02		
30	21	0.02		
40	16	0.02		
50	30	0.04		

Test Mode: CDMA2000 PCS 1xRTT FCH RC3 CH600

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-42	-0.02		
-20	-35	-0.02		
-10	-24	-0.01		
0	-12	-0.01		Passed
10	10	0.01	2.5	
20	9	0.00		
30	-14	-0.01		
40	30	0.02		
50	25	0.01		

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Test Mode : CDMA2000 PCS 1xEV-DO 153.6Kbps CH600

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-35	-0.02		
-20	-28	-0.01		
-10	-17	-0.01		
0	-12	-0.01		Passed
10	-9	0.00	2.5	
20	9	0.00		
30	24	0.01		
40	12	0.01		
50	14	0.01		

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4.8 Frequency Stability (Voltage Variation)

4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

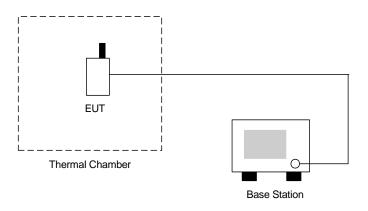
4.8.2 Test Procedure

1. The EUT was placed in a temperature chamber at 25±5 °C and connected as the following section.

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- 2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

4.8.3 Test Setup Layout



4.8.4 Test Result

Test Mode: CDMA2000 Cellular 1xRTT FCH+SCH_RC3 CH384

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	14.0	0.02		
BEP	-8.0	-0.01	2.5	Passed
4.2	12.0	0.01		

Test Mode : CDMA2000 Cellular 1xEV-DO 153.6Kbps CH384

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	-14.0	-0.02		
BEP	20.0	0.02	2.5	Passed
4.2	18.0	0.02		

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Test Mode: CDMA2000 PCS 1xRTT FCH_RC3 CH600

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	14.0	0.01		
BEP	-6.0	0.00	2.5	Passed
4.2	16.0	0.01		

Test Mode: CDMA2000 PCS 1xEV-DO 153.6Kbps CH600

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result		
3.7	14.0	0.01				
BEP	-9.0	0.00	2.5	Passed		
4.2	18.0	0.01				

Remark:

- Normal Voltage=3.7 V.
 Battery End Point (BEP)=3.2 V.

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5 List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	Agilent	E4408B	MY44211028	9KHz-26.5GHz	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 26, 2007	Jul. 25, 2008	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Dec. 01, 2007	Nov. 30, 2008	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071025	1G~18G	Jun. 04, 2007	Jun. 03, 2008	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-251	14G - 40G	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 22, 2007	Nov. 21, 2008	Radiation (03CH06-HY)
PreAmplifier	EMEC	PA303	PA303-SMA- 059	100K~3GHz	Nov. 26, 2007	Nov. 25, 2008	Radiation (03CH06-HY)
Base Station Simulator	R&S	CMU200	103937	Third-Band	Oct. 19, 2007	Oct. 18, 2008	Radiation (03CH06-HY)
Thermal Chamber	Tenyi technology	TTH-D35P	TBN-930701	N/A	Aug. 02, 2007	Aug. 01, 2008	Conduction (TH02-HY)
Spectrum	R&S	FSP40	100055	9KHz~40GHz	Jun. 25, 2007	Jun. 24, 2008	Conduction (TH02-HY)
Bluetooth Test	ANRITSU	MT8852A	6K00003939	N/A	N/A	N/A	Conduction (TH02-HY)
Power Divider	ARRA	5200-1	3871	N/A	Oct. 01, 2007	Sep. 30, 2008	Conduction (TH02-HY)
DC Power Supply	TOPWARD	3303D	740889	N/A	May 25, 2007	May 24, 2009	Conduction (TH02-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Feb. 08, 2007	Feb. 07, 2008	Conduction (TH02-HY)
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 08, 2007	Feb. 07, 2008	Conduction (TH02-HY)

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6 Uncertainty Evaluation

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

	Uncertair			
Contribution	-ID	Probability	$u(x_i)$	
	dB	Distribution		
Receiver reading	0.41	Normal(k=2)	0.21	
Antenna factor calibration	0.83	Normal(k=2)	0.42	
Cable loss calibration	0.25	Normal(k=2)	0.13	
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14	
RCV/SPA specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site imperfection	1.43	Rectangular	0.83	
Mismatch	+0.39/-0.41	U-shaped	0.28	
Combined standard uncertainty Uc(y)	1.27			
Measuring uncertainty for a level of confidence	2.54			
of 95% U=2Uc(y)	2.54			

<u>Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)</u>

	Uncerta	certainty of X_i			
Contribution	dB Pro	Probability	$u(x_i)$	Ci	$Ci*u(x_i)$
	dВ	Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch			0.244	1	0.244
Receiver VSWR Γ1= 0.197	+0.34/-0.35	Llabanad			
Antenna VSWR Γ2= 0.194	+0.34/-0.35	U-shaped	0.244		
Uncertainty=20log(1-Γ1*Γ2*Γ3)					
Combined standard uncertainty Uc(y)	2.36				
Measuring uncertainty for a level of		4 72			
confidence of 95% U=2Uc(y)	4.72				

END OF TEST REPORT

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