

-70 15000 15600. 16200. 16800. 17400. 18000

Trace: (Discrete)

Site :: 03CHD6HY

Remark: 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: NBZNRM-EU860D

IC ID: 3229A-EU860D

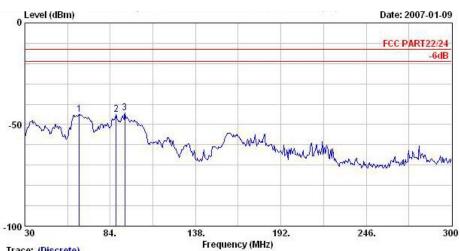
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C/IC TEST REPORT Report No. : FG710513

Vertical Polarization

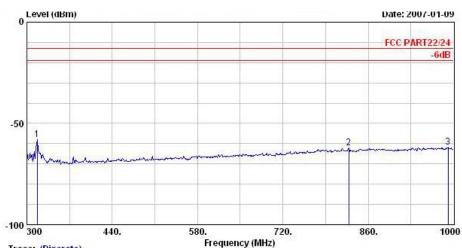


Site Condition EUT Power Model Memo

> 1 @ 2 @ 3 @

Trace: (Discrete)
03CH06-HY
LF-SPURIOUS VERTICAL
Module
120Vac/AOHz
FG 710513
PCS 1900 Link, CH699+ Adaptor

	Freq	Level	Over Limit	Limit Line		Factor	Remark	
0.00	MHz	dBm	<u>dB</u>	dBm	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		
	87.8	-44.86	-32.04 -31.86 -31.22	-13.00	-35.49	-9.37	Peak	



Site Condition EUT Power Model Memo

1 2 3

Trace: (Discrete)
03CH06-HY
LF-SPURIOUS VERTICAL
Module
120Vac/AOHz
FG 710513
FCS 1900 Link, CH699+ Adaptor

is 1900	Freq	Level		Limit Line	Read Level	Factor	Remark
#####	MHz	dBm	$\overline{d}\overline{B}$	dB m	d Bm	$\overline{-}\overline{d}\overline{B}$	
	827.8	-57.97 -62.14 -61.72	-49.14	-13.00	-63.43	1.29	

SPORTON International Inc.

TEL: 886-2-2696-2468

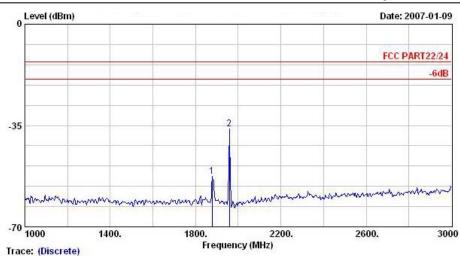
FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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Site Condition EUT Power Model Memo

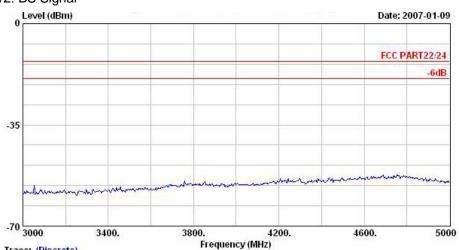
OSCHOS-HY
HF-SPURIOUS VERTICAL
Module
120Vas/60Hz
FG 710513
PCS 1900 Link,CH699+Adaptor

Over Limit Read Line Level Factor Remark Freq Level Limit MHz dBm <u>dB</u> --dBm ---dBm ₫B 1878.0 -52.54 1958.0 -36.08 -52.14 -0.40 Peak -35.48 -0.60 Peak

Remark:

1 2 @

1. #1: MS Signal 2. #2: BS Signal



Site Condition EUT Power Model Memo

Trace: (Discrete) GCHO6-HY
HF-SPURIOUS VERTICAL
Module
120Vac/AOHz
FG 710513
FCS 1900 Link, CH699+ Adaptor

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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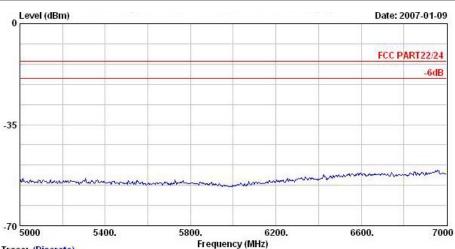
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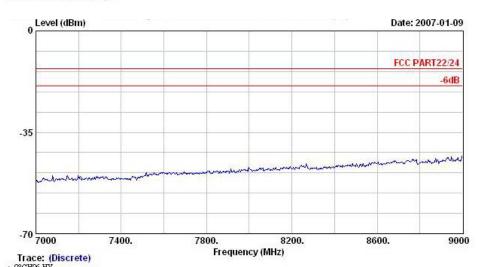
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Site Condition EUT Power Model Memo Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Yao/AOHz
FG 710513
FCS 1900 Link,CH699+Adaptox



Site Condition EUT Powex Model Memo Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Veo/KOHz
FG 710513
FCS 1900 Link, CH699+ Adaptor

SPORTON International Inc.

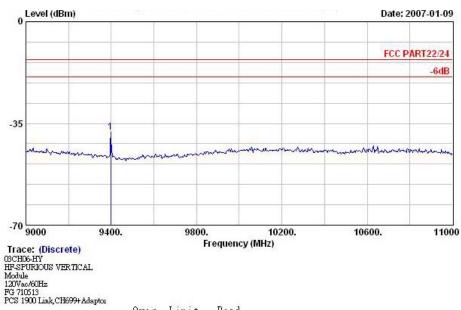
TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

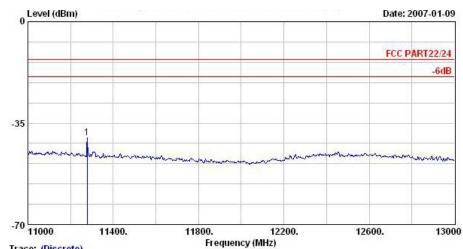




Site Condition EUT Power Model Memo

Over Limit Read Level Factor Remark Freq Level Limit Line MHz dB dB dBm dBm dBm

1 @ 9398.0 -38.03 -25.03 -13.00 -55.23 17.20 Peak



Site Condition EUT Power Model Memo

Trace: (Discrete) OSCHOS-HY
HF-SPURIOUS VERTICAL
Module
120Yas/80Hz
FG 710513
FCS 1900 Link,CH699+Adaptox

Over Limit Read Line Level Factor Remark Freq Level Limit dB dBm MHz dBm \overline{dB} dBm

11278.0 -40.00 -27.00 -13.00 -58.88 18.87 Peak 1 @

SPORTON International Inc.

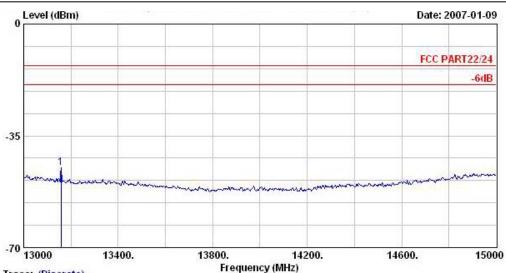
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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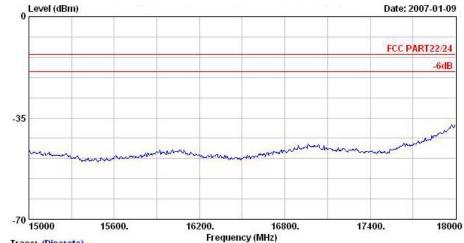


Power Model

Trace: (Discrete) OBCHO6-HY HF-SPURIOUS VERTICAL Module 120Vac/60Hz FG 710513 PCS 1900 Link,CH699+Adaptox

Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm dB

1 @ 13158.0 -45.03 -32.03 -13.00 -60.82 15.79 Peak



Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Vac/AOHz
FG 710513
FCS 1900 Link,CH699+Adaptox

Remark: 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 : NBZNRM-EU860D IC ID : 3229A-EU860D

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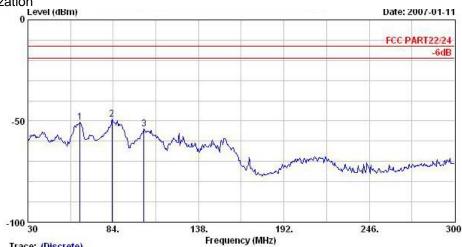
Report Issued Date : Jan. 17, 2007

Report Version

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Report No. : FG710513





Site Condition EUT Power Model Memo

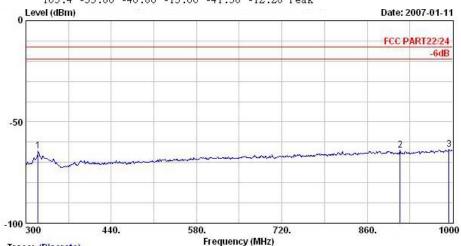
1 2 3

Trace: (Discrete)
03:CH06-HY
LF-SPURIOUS HORIZONTAL
Module
120Vse/60Hz
FG 710513
EDGE Link+Adaptox

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

62.9 -50.50 -37.50 -13.00 -38.12 -12.38 Peak
83.2 -49.15 -36.15 -13.00 -36.85 -12.30 Peak
103.4 -53.86 -40.86 -13.00 -41.58 -12.28 Peak



Site Condition EUT Power Model Memo

123

Trace: (Discrete)
03CH06-HY
LF-SPURIOUS HORIZONTAL
Module
120Vas/60Hz
FG 710513
EDGE Link+Adaptox

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

320.3 -64.26 -51.26 -13.00 -55.02 -9.24 Peak
913.9 -64.12 -51.12 -13.00 -63.53 -0.59 Peak
994.4 -63.53 -50.53 -13.00 -63.71 0.18 Peak

SPORTON International Inc.

TEL: 886-2-2696-2468

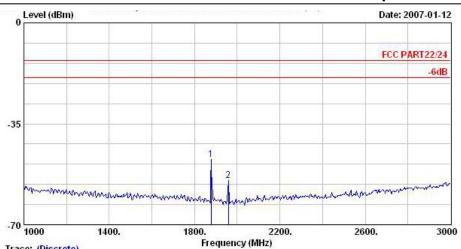
FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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Site Condition EUT Power Model Memo

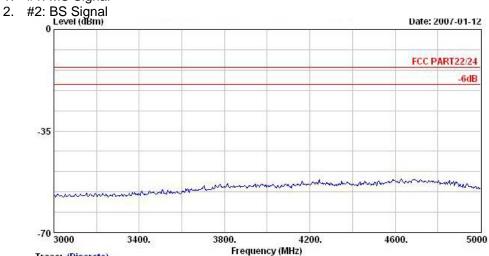
Trace: (Discrete)
03CH05-HY
HF-SPURIOUS HORIZONTAL
Module
12DVscAOHz
FG 710513
EDGE Link+Adaptox

	Freq	Level		Limit Line		Factor	Remark	
-	MHz	dBm	$\overline{d}\overline{B}$	dBm	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		
		-47.35 -54.66				-0.51 -1.11		

Remark:

1 2

1. #1: MS Signal



Site Condition EUT Power Model Memo

Trace: (Discrete)
03CH06-HY
HF-SPURIOUS HORIZONTAL
Module
120Vec/60Hz
FG 710513
EDGE Link+Adaptox

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

Page No.

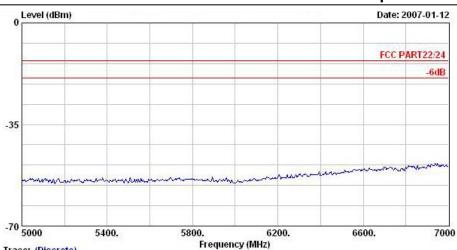
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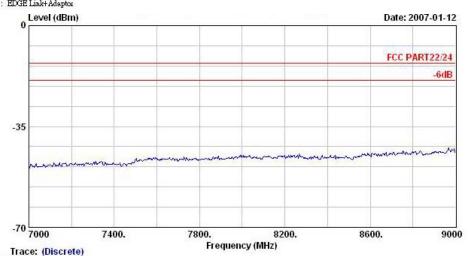
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Trace: (Discrete)
03CH06-HY
HF-SPURIOUS HORIZONTAL
Module
120Vac/AOHz
FG 710513
EDGE Link+Adaptox

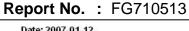


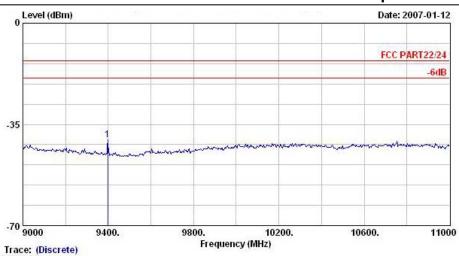
Site Condition EUT Power Model Memo

Trace: (Discrete)
03CH05-HY
HF-SPURIOUS HORIZONTAL
Module
12DVscAOHz
FG 710513
EDGE Link+Adaptox

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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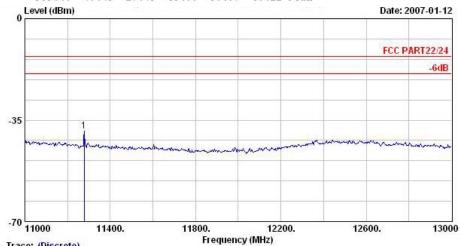


Site Condition EUT Power Model Memo OSCHOS-HY
HF-SPURIOUS HORIZONTAL
Module
120Vso-KOHz
FG 710513
EDGE Linkt Adaptox

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

1 9398.0 -40.45 -27.45 -13.00 -58.67 18.22 Peak



Site Condition EUT Power Model Memo

1

Trace: (Discrete)
03CH05-HY
HR-SPURIOUS HORIZONTAL
Module
120Vsc/60Hz
FG 710513
EDGE Link+Adaptox

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

11278.0 -38.88 -25.88 -13.00 -59.17 20.30 Peak

SPORTON International Inc.

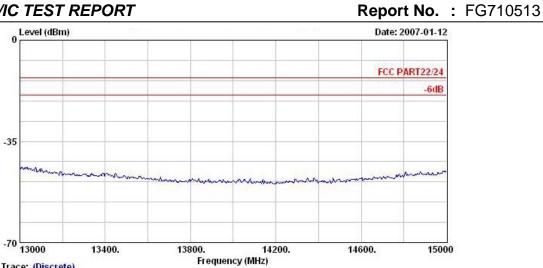
TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

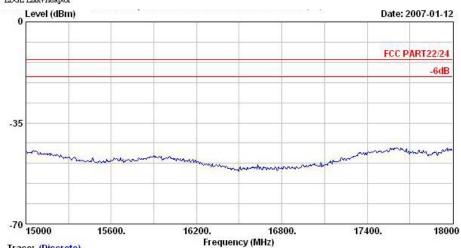
IC ID: 3229A-EU860D

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Trace: (Discrete)
03CH06-HY
HF-SPURIOUS HORIZONTAL
Module
12DVsc/80Hz
FG 710513
EDGE Link+Adaptox



Trace: (Discrete)
03CH06-HY
HF-SPURIOUS HORIZONTAL
Module
12DVsc/80Hz
FG 710513
EDGE Linkt Adaptox

Remark: 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 : NBZNRM-EU860D IC ID : 3229A-EU860D

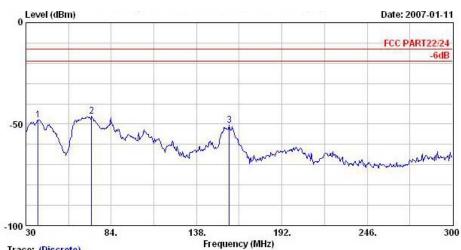
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Vertical Polarization

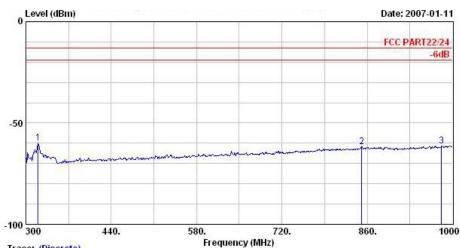


Site Condition EUT Power Model Memo

1 2 3

Trace: (Discrete)
03CH06-HY
LF-SPURIOUS VERTICAL
Module
120Vac/AOHz
FG 710513
EDGE Link+Adaptox

Freq	Level		Limit Line		Factor	Remark	
 MHz	——dBm	\overline{dB}	——dBm	dB m	\overline{dB}		
71.6	-46.13	-33.13	-13.00 -13.00 -13.00	-34.39	-11.74	Peak	



Site Condition EUT Power Model Memo

1 2 3

Trace: (Discrete)
03CH06-HY
LF-SPURIOUS VERTICAL
Module
120Vao/AOHz
FG 710513
EDGE Linkt Adaptor

Freq	Level		Limit Line		Factor	Remark
MHz	<u>dB</u> m	$\overline{d}\overline{B}$	<u>d</u> Bm	dBm	\overline{dB}	
850.9	-60.03 -61.55 -61.16	-48.55	-13.00	-63.02	1.47	

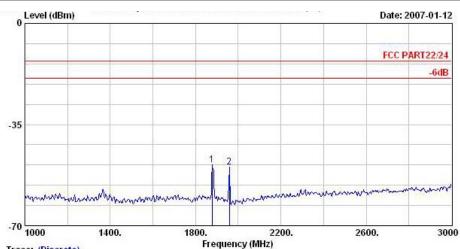
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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Site Condition EUT Power Model Memo

Trace: (Discrete) OSCHOS-HY
HF-SPURIOUS VERTICAL
Module
120Ves/60Hz
FG 710513
EDGE Link+Adaptox

	Freq	Level		Limit Line		Factor	Remark
_	MHz	dBm	dB	dBm	dBm	<u>dB</u>	
		-48.99 -49.81				-0.40 -0.60	

Remark:

12

- 1. #1: MS Signal 2. #2: BS Signal
 - 0 Level (dBm) Date: 2007-01-12 FCC PART22/24 -6dB -35 -70 3000 3400. 4200. 3800. 4600. 5000 Frequency (MHz)

Power Model

1

Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Vao/AOHz
FG 710513
EDGE Linkt-Adaptox

Over Limit Read Limit Line Level Factor Remark Freq Level Limit MHz dBm dB dBm dBm dB 3758.0 -52.75 -39.75 -13.00 -59.39 6.64 Peak

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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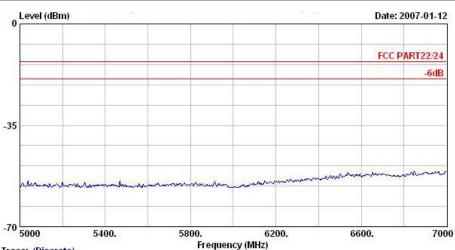
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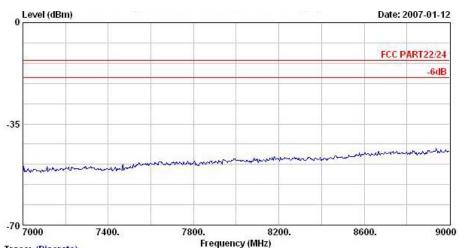
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Site Condition EUT Power Model Memo Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Veo/KOHz
FG 710513
EDGE Link+Adaptox



Site Condition EUT Power Model Mosses Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Vao/KOHz
FG 710513
EDGE Linkt Adaptor

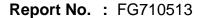
SPORTON International Inc.

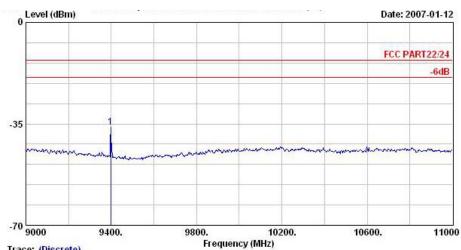
TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D



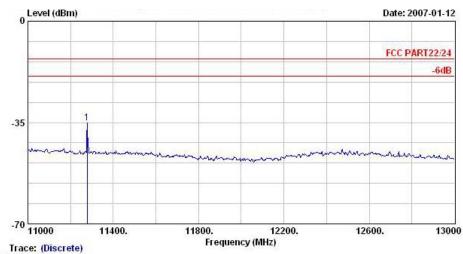


Site Condition EUT Power Model Memo Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
12DVac/60Hz
FG 710513
EDGE Link+Adaptor

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

1 @ 9398.0 -36.23 -23.23 -13.00 -53.43 17.20 Peak



Site Condition EUT Power Model Merco ITace: (Discrete)
03CH06-HY
HP-SPURIOUS VERTICAL
Module
120Vso/60Hz
FG 710S13
EDGE Link+Adaptox

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

11278.0 -35.18 -22.18 -13.00 -54.05 18.87 Peak

1 @ 11278.0 -35.18 -22.18 -13.00 -54.05 18.87 Peak

SPORTON International Inc.

TEL: 886-2-2696-2468

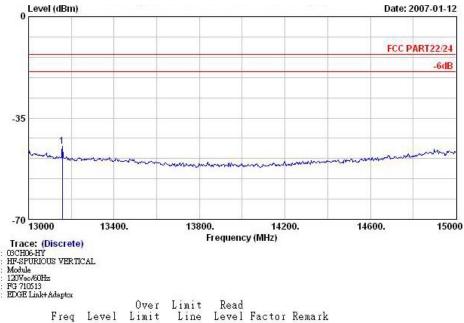
FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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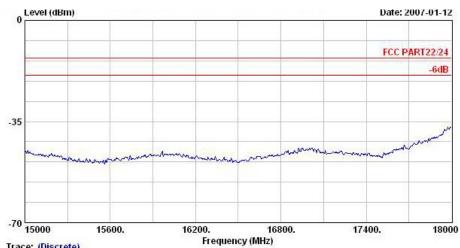
Report No. : FG710513



Site Condition EUT Power Model Memo

Freq	Level		Limit Line		Factor	Remark
MHz	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	dBm	dBm	\overline{dB}	
13158.0	-44.65	-31.65	-13.00	-60.45	15.79	Peak

1



Site Condition EUT Power Model Memo Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Veo/60Hz
FG 710513
EDGE Link+Adaptox

Remark: There is no more obvious emission except the listings above.

SPORTON International Inc.

TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

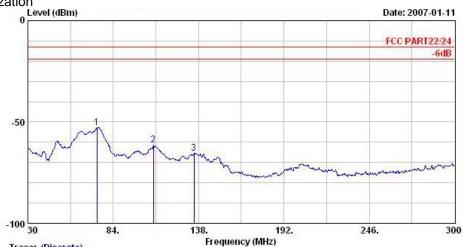
FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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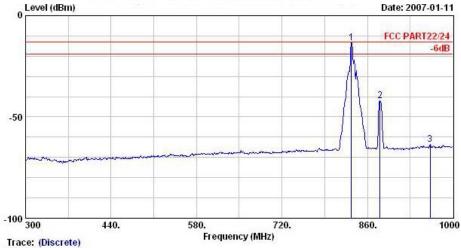


Site Condition EUT Power Model Memo

Trace: (Discrete)
08CH05-HY
LF-SPURIOUS HORIZONTAL
Module
12DVsc/60Hz
FG 710513
WCDMA 850 Link;CH4182+Adaptox

Over Limit Read Freq Level Limit Line Level Factor Remark dB dBm dBm dBm dB

73.7 -52.89 -39.89 -13.00 -40.54 -12.34 Peak 109.4 -61.43 -48.43 -13.00 -49.08 -12.35 Peak 135.0 -65.35 -52.35 -13.00 -52.71 -12.64 Peak



Site Condition EUT

ITACE: (DISCIPLE)
ISCHOS-HY
LF-SPURIOUS HORIZONTAL
Module
120Vac/80Hz
FG 710513
WCDMA 850 Link;CH4182+Adaptox

Over Limit Freq Level Limit Line Level Factor Remark dB dBm dBm dBm dB -12.12 -1.37 Peak 880.3 -42.02 -41.11 -0.91 Peak 962.9 -63.57 -50.57 -13.00 -63.46 -0.12 Peak

2 @ 3 Remark:

> 1. #1: MS Signal 2. #2: BS Signal

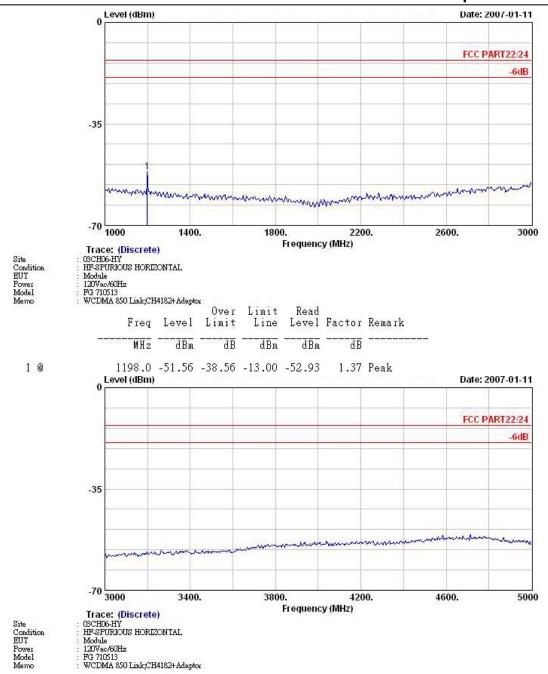
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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Report Issued Date : Jan. 17, 2007





Remark: There is no more obvious emission except the listings above.

SPORTON International Inc.

TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

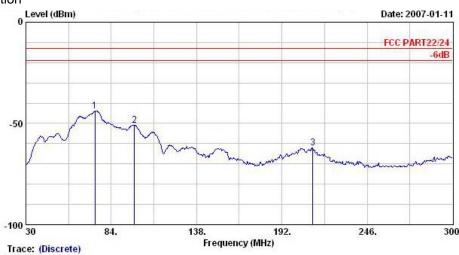
FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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Report No. : FG710513

Vertical Polarization

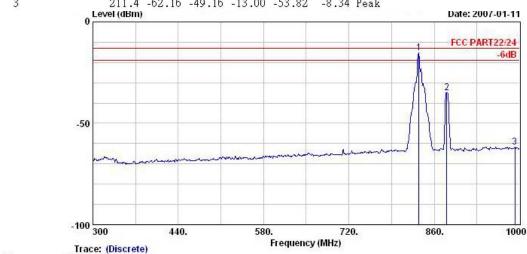


Site Condition EUT Power Model Memo

GCHO-HY
LF-SPURIOUS VERTICAL
Module
120Vac/60Hz
FG 710513
WCDMA 850 Link;CH4182+Adaptor

Over Limit Read Freq Level Limit Line Level Factor Remark dBm dB dBm dBm ----<u>dB</u> ---

73.7 -44.00 -31.00 -13.00 -32.53 98.6 -50.89 -37.89 -13.00 -43.06 211.4 -62.16 -49.16 -13.00 -53.82 -11.46 Peak -7.83 Peak -8.34 Peak 1 @ 2 @ 3



Site Condition EUT Power Model

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1 @ 2 @ 3

834.8 -15.07 -16.42 880.3 -34.82 -36.53 992.3 -61.67 -48.67 -13.00 -64.27 1.35 Peak 1.71 Peak 2.60 Peak

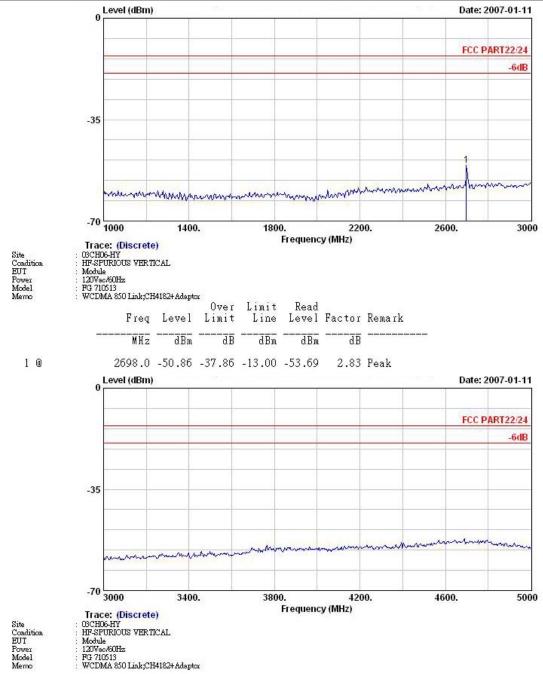
Remark:

1. #1: MS Signal 2. #2: BS Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D





Remark: There is no more obvious emission except the listings above.

SPORTON International Inc.

TEL: 886-2-2696-2468

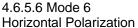
FAX: 886-2-2696-2255

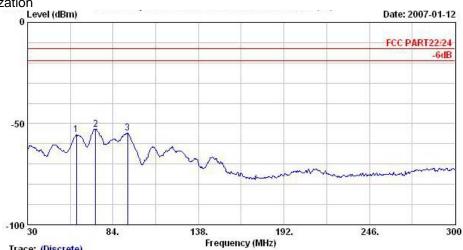
FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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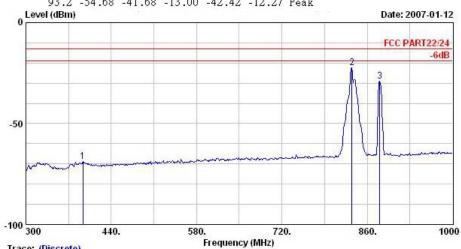
Report No. : FG710513





Site Condition EUT Power Model Memo

Trace: (Discrete)
03CH06-HY
LF-SPURIOUS HORIZONTAL
Module
120Vso/KOHz
FG 710513
HSDPA Link+Adaptox



Site Condition EUT Power Model Memo Trace: (Discrete)
03CH06-HY
LF-SPURIOUS HORIZONTAL
Module
120Vac/60Hz
FG 710513
HSDPA Link+Adaptox

Freq	Level		Limit Line			Remark
MHz	<u>dB</u> m	\overline{dB}	——dBm	dB m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	
834.8	-68.89 -22.29 -28.90	-55.89	-13.00		-6.70 -1.35 -0.91	Peak

Remark:

1 2 @ 3 @

- 1. #2: MS Signal
- 2. #3: BS Signal

SPORTON International Inc.

TEL: 886-2-2696-2468

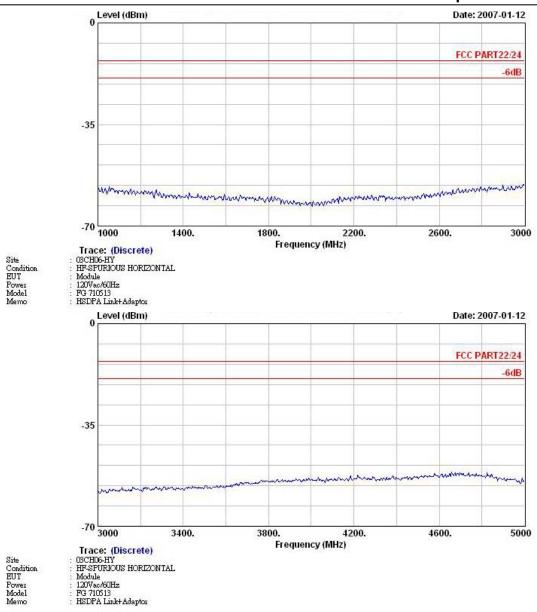
FAX: 886-2-2696-2255

FCC ID : NBZNRM-EU860D

IC ID : 3229A-EU860D

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Remark: 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: NBZNRM-EU860D

IC ID: 3229A-EU860D

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Report No. : FG710513

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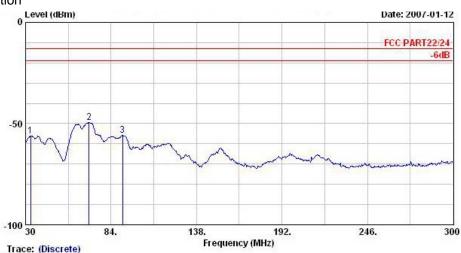
: Rev. 01

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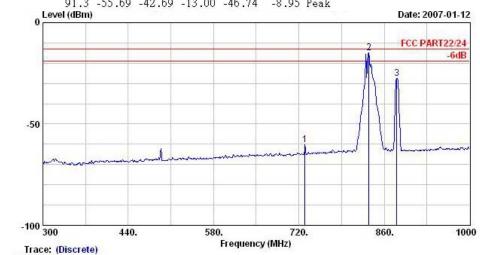


Site Condition EUT Power Model Memo Trace: (Discrete)
03CH06-HY
LF-SPURIOUS VERTICAL
Module
120Yee/AOHz
FG 710513
HSDPA Link+Adaptox

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

1 33.2 -55.99 -42.99 -13.00 -46.10 -9.89 Peak
2 @ 70.2 -49.47 -36.47 -13.00 -37.44 -12.02 Peak
3 91.3 -55.69 -42.69 -13.00 -46.74 -8.95 Peak



Site Condition EUT Power Model

OSCHO-HY
LF-SPURIOUS VERTICAL
Module
120Vsc/60Hz
FG 710513
HSDPA Link+Adaptox

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

1 2 @ 3 @ 729.8 -60.05 -47.05 -13.00 -60.05 0.01 Peak 834.8 -14.93 -16.27 1.35 Peak 880.3 -27.39 -29.10 1.71 Peak

Remark:

#2: MS Signal
 #3: BS Signal

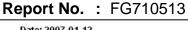
SPORTON International Inc.

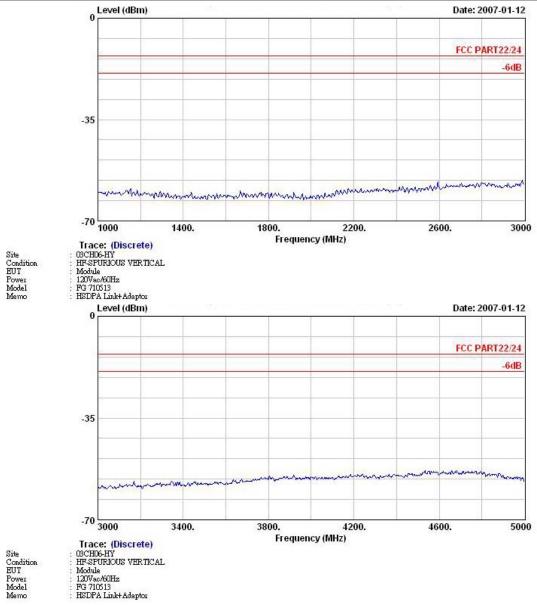
TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D





Remark: There is no more obvious emission except the listings above.

SPORTON International Inc.

TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

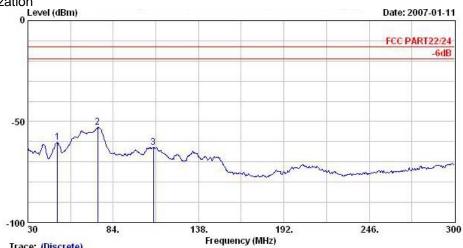
FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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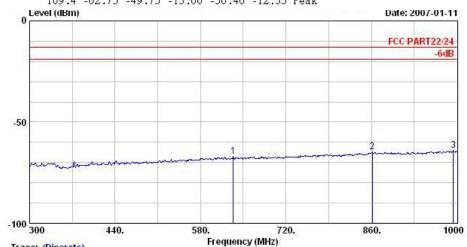


Site Condition EUT Power Model

1 @ 2 @ 3 @

Trace: (Discrete) OSCHO6-HY
LF-SPURIOUS HORIZONTAL
Module
120Vac/80Hz
FG 710513
WCDMA 1900 Link, CH9400+Adaptox

Over Limit Read Freq Level Limit Line Level Factor Remark dBm MHz dBm dB dBm dB 48.6 -60.39 -47.39 -13.00 -49.17 -11.21 Peak 74.3 -52.89 -39.89 -13.00 -40.55 -12.34 Peak 109.4 -62.75 -49.75 -13.00 -50.40 -12.35 Peak



Site Condition EUT

1 @ 2 @ 3 @

Trace: (Discrete)
03CH06-H7
LF-SFURIOUS HORIZONTAL
Module
120Vac/60Hz
FG 710513
WCDMA 1900 Link,CH9400+Adaptox
Over Limit

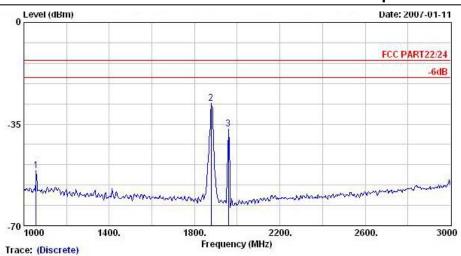
	F req	Level		Limit		Factor	Remark
-	MHz	dBm	$\overline{} \overline{d} \overline{B}$	dBm	dB m	<u>dB</u>	
	861.4	-64.79	-51.79	-13.00 -13.00 -13.00	-63.69	-1.10	Peak

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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Site Condition EUT Power Model Memo

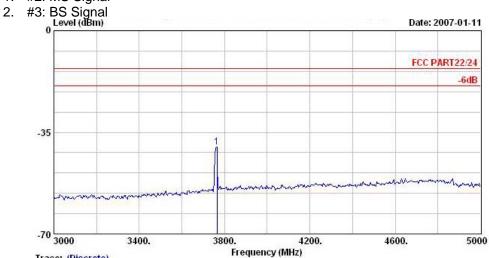
OSCHO6-HY
HF-SPURIOUS HORIZONTAL
Module
120Veo/KOHz
FG 710513
WCDMA 1900 Link, CH9400+Adaptor

	Freq	Level	7	Limit Line		Factor	Remark
-	MHz	<u>dB</u> m	\overline{dB}	dBm	dB m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	
	1878.0	-51.00 -27.81 -36.62			-27.30	1.71 -0.51 -1.11	Peak

Remark:

1 @ 2 @ 3 @

1. #2: MS Signal



Site Condition EUT Power Model

1 @

Trace: (Discrete)
03CH05-HY
HF-SPURIOUS HORIZONTAL
Module
120Vac/60Hz
FG 710513
WCDMA 1900 Link, CH9400+Adaptox

Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm dB 3764.0 -40.00 -27.00 -13.00 -47.92 7.92 Peak

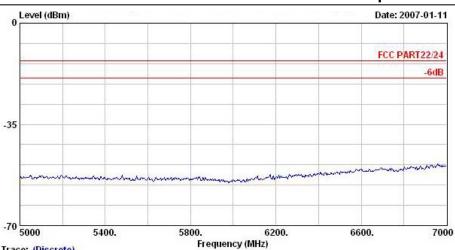
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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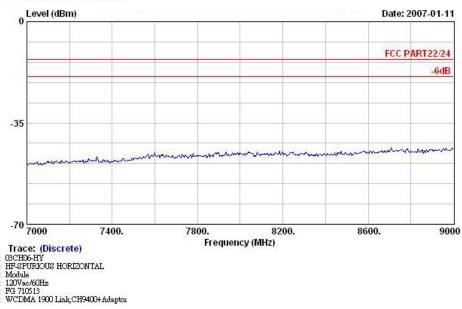
Report Issued Date : Jan. 17, 2007





Site Condition EUT Power Model Memo

Trace: (Discrete)
08CH06-HY
HP-SPURIOUS HORIZONTAL
Module
12DVac/80Hz
FG 710513
WCDMA 1900 Link,CH9400+Adaptox

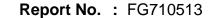


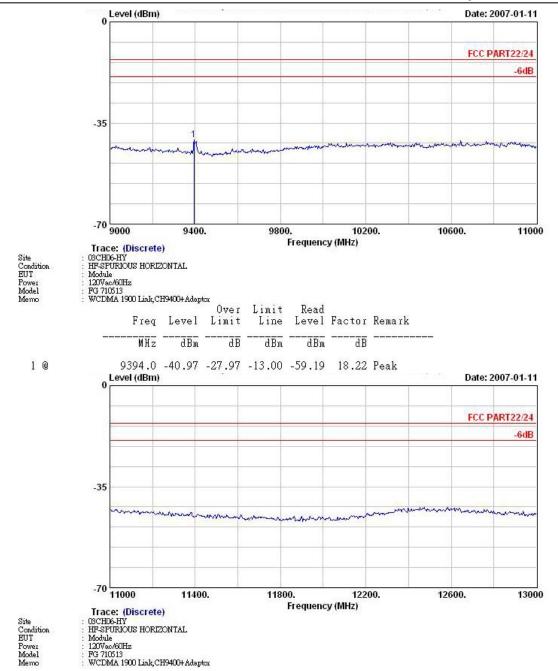
Site Condition EUT

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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Remark: There is no more obvious emission except the listings above.

SPORTON International Inc.

TEL: 886-2-2696-2468

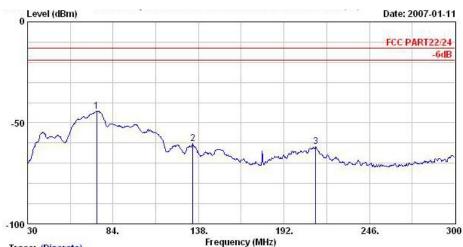
FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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Vertical Polarization

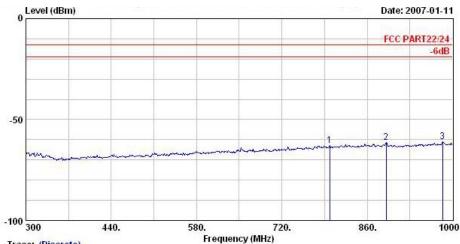


Site Condition EUT Power Model Memo

> 1 @ 2 @ 3 @

Trace: (Discrete)
03CH06-HY
LF-SPURIOUS VERTICAL
Module
120Vec/60Hz
FG 710513
WCDMA 1900 Link,CH9400+Adaptox

Freq	Level		Limit Line		Factor	Remark	
 MHz	dB m	\overline{dB}	dBm	dBm	<u>dB</u>		
134.5	-44.21 -60.19 -61.82	-47.19	-13.00	-52.18	-8.00	Peak	



Site Condition EUT Power Model Memo

> 1 @ 2 @ 3 @

Trace: (Discrete)
08CH06-HY
LF-SPURIOUS VERTICAL
Module
12DVac-60Hz
FG 710513
WCDMA 1900 Link, CH9400+Adaptox

Freq	Level		Limit Line		Factor	Remark
MHz	——dBm	<u>dB</u>	——dBm	dBm	\overline{dB}	
890.8	-62.64 -61.36 -61.11	-48.36	-13.00	-63.15	1.79	

SPORTON International Inc.

TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

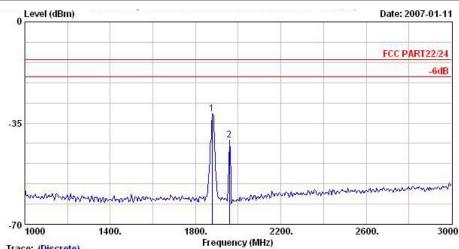
FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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Report No. : FG710513



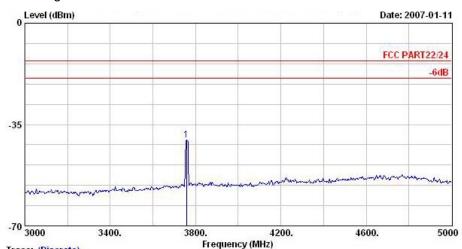
Site Condition EUT Power Model Memo

Trace: (Discrete) Hace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Vsc/60Hz
FG 710513
WCDMA 1900 Link,CH9400+Adaptox

Freq	Level		Limit Line		Factor	Remark	
MHz	dBm	<u>dB</u>	d Bm	dBm	<u>dB</u>		
	-31.77 -40.84				-0.40 -0.60		

1 @ 2 @ Remark:

1. #1: MS Signal 2. #2: BS Signal



Power Model

1 @

Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Vso/KOHz
FG 710513
WCDMA 1900 Link,CH9400+Adaptox

Over Limit Read
Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm 3758.0 -40.33 -27.33 -13.00 -46.97 6.64 Peak

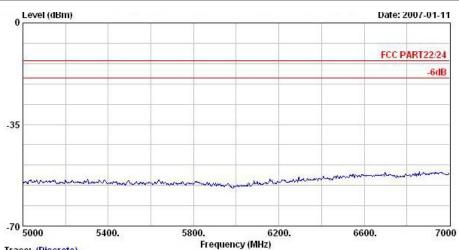
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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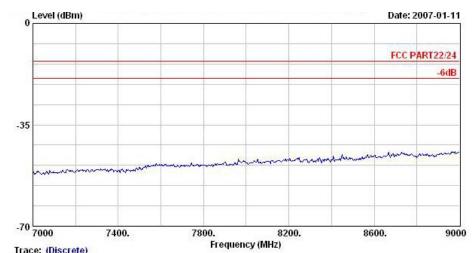
Report Issued Date : Jan. 17, 2007 Report Version : Rev. 01

Report No. : FG710513



Site Condition EUT Power Model Memo

Trace: (Discrete)
03CH05-HY
HF-SPURIOUS VERTICAL
Module
120Vac/80Hz
FG 710513
WCDMA 1900 Link,CH9400+Adaptox



Site Condition EUT

Trace: (Discrete)
03CH05-HY
HF-SPURIOUS VERTICAL
Module
120Vac/80Hz
FG 710513
WCDMA 1900 Link,CH9400+Adaptox

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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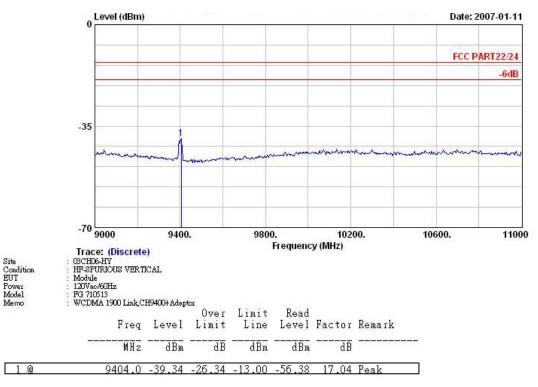
: 129 of 146

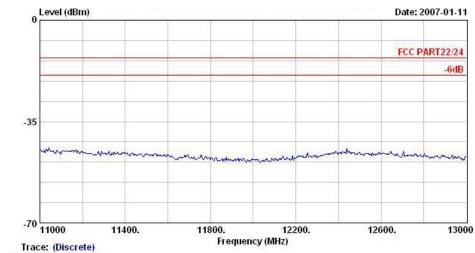
: Rev. 01

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Remark: There is no more obvious emission except the listings above.

SPORTON International Inc.

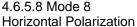
TEL: 886-2-2696-2468

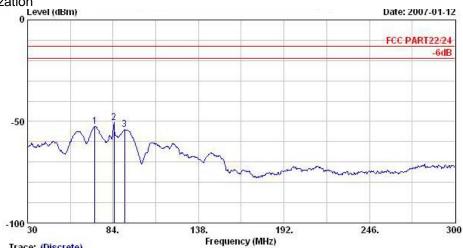
FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

Report No. : FG710513



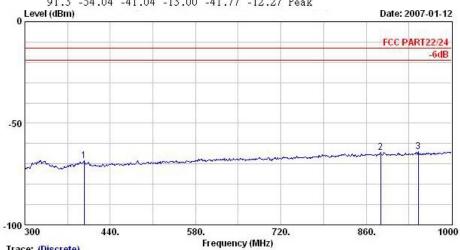


Site Condition EUT Power Model Memo

1 2 3

Trace: (Discrete)
03CH06-HY
LF-SPURIOUS HORIZONTAL
Module
120Vac/AOHz
FG 710513
HSDPA Link+Adaptox

Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBm \overline{dB} \overline{dBm} dBm dB 72.4 -52.47 -39.47 -13.00 -40.12 -12.34 Peak 84.5 -50.63 -37.63 -13.00 -38.33 -12.30 Peak 91.3 -54.04 -41.04 -13.00 -41.77 -12.27 Peak



Site Condition EUT Power Model Memo

2

Trace: (Discrete) GCH06-HY
LF-SPURIOUS HORIZONTAL
Module
120Vao-80Hz
FG 710513
HSDPA Link+Adaptox

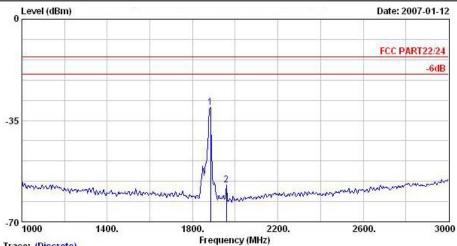
Over Limit Read Limit Line Level Factor Remark Freq Level Limit MHz dBm dB dBm dBm \overline{dB} 397.3 -68.26 -55.26 -13.00 -61.69 -6.57 Peak 883.8 -64.38 -51.38 -13.00 -63.50 -0.88 Peak 945.4 -64.06 -51.06 -13.00 -63.77 -0.28 Peak

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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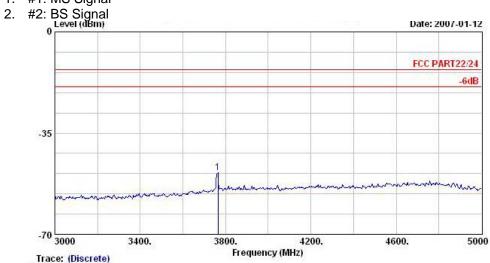
Site Condition EUT Power Model Memo

Trace: (Discrete)
03CH06-HY
HF-SPURIOUS HORIZONTAL
Module
12DVac-80Hz
FG 710513
HSDPA Linkt Adaptox

	Freq	Level		Limit Line		Factor	Remark	
-	MHz	dBm	<u>dB</u>	dBm	dBm	\overline{dB}		
		-30.36 -57.26				-0.68 -1.11		

1 @ 2 Remark:

1. #1: MS Signal



Site Condition EUT Power Model Memo

1

GCHO6-HY
HF-SPURIOUS HORIZONTAL
Module
120Vac/AOHz
FG 710513
HSDPA Link+Adaptox

Over Limit Read Line Level Factor Remark Freq Level Limit MHz dBm \overline{dB} 3764.0 -48.60 -35.60 -13.00 -56.52 7.92 Peak

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

Page No.

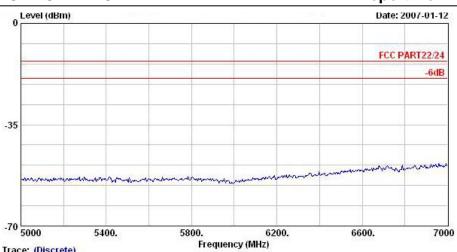
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Report Issued Date : Jan. 17, 2007

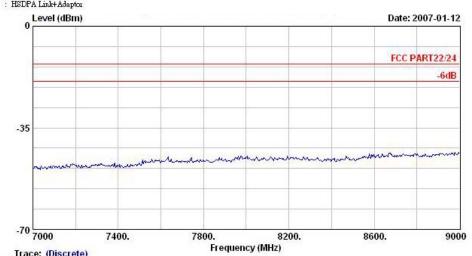
Report Version

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Trace: (Discrete)
03CH06-HY
HF-SPURIOUS HORIZONTAL
Module
120Vao-AOHz
FG 710513
HSDPA Link+Adaptox



Site Condition EUT Power Model Memo

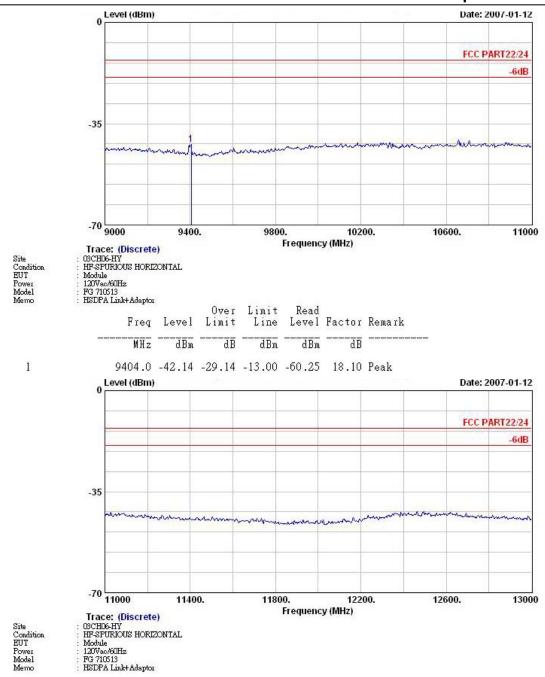
Trace: (Discrete)
03CH06-HY
HF-SPURIOUS HORIZONTAL
Module
120Vac/AOHz
FG 710513
HSDPA Link+Adaptox

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D

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Remark: There is no more obvious emission except the listings above.

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SPORTON International Inc.

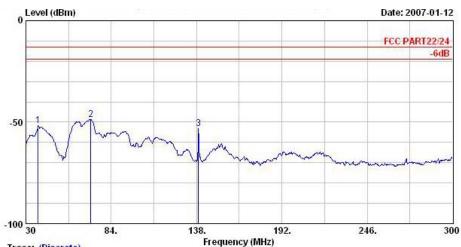
TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

Vertical Polarization

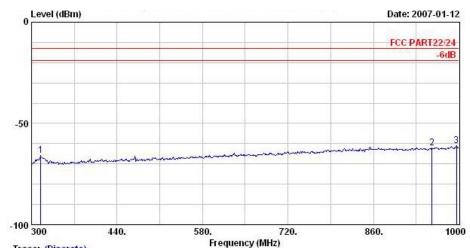


Site Condition EUT Power Model Memo

1 2 3

Trace: (Discrete)
08CH06-HY
LF-SPURIOUS VERTICAL
Module
120Vso/60Hz
FG 710513
HSDPA Link+Adaptox

Fre	eq L	evel	Over Limit	Limit Line		Factor	Remark	
<u>M</u>]		−dBm	\overline{dB}	dBm	dB m	$\overline{d}\overline{B}$		
71	.0 -4	8.54	-38.72 -35.54 -40.33	-13.00	-36.65	-11.88	Peak	



Site Condition EUT Power Model Memo

1 2 3

Trace: (Discrete)
03CH06-HY
LF-SPURIOUS VERTICAL
Module
120Vso/60Hz
FG 710513
HSDPA Link+Adaptox

F req	Level	Uver Limit	Limit Line	***	Factor	Remark
MHz	dB m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	dBm	dB m	\overline{dB}	
955.9	-65.93 -62.06 -61.13	-49.06	-13.00	-64.37	2.31	Peak

SPORTON International Inc.

TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

FCC ID: NBZNRM-EU860D

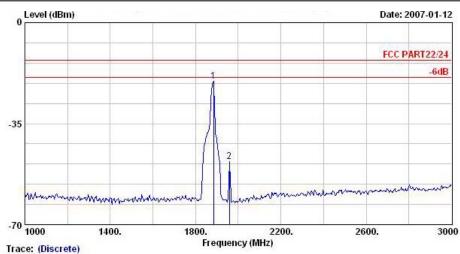
IC ID: 3229A-EU860D

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Report No. : FG710513

Report Issued Date : Jan. 17, 2007 Report Version : Rev. 01

Report No. : FG710513



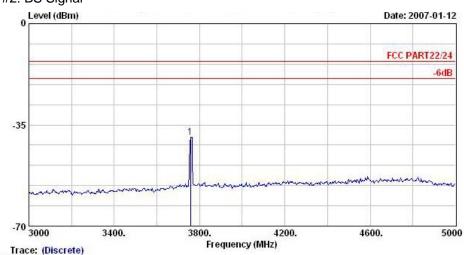
Site Condition EUT Power Model Memo Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Vso/60Hz
FG 710S13
HSDPA Link+Adaptox

Freq	Level		Limit Line		Factor	Remark	
MHz	−−−dBm	$\overline{d}\overline{B}$	−−−dBm	dBm	\overline{dB}		
	-20.26 -48.13				-0.50 -0.60		

Remark:

1 @ 2

#1: MS Signal
 #2: BS Signal



Site Condition EUT Power Model Memo

1

Hace: (bisciete)
03cH06-HY
HF-SPURIOUS VERTICAL
Module
120Vac/60Hz
FG 710513
HSDPA Link+Adaptox

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

3758.0 -39.27 -26.27 -13.00 -45.91 6.64 Peak

SPORTON International Inc.

TEL: 886-2-2696-2468

FAX: 886-2-2696-2255

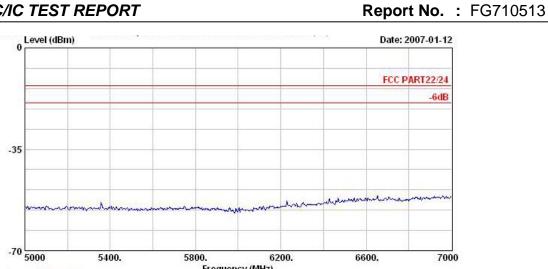
FCC ID: NBZNRM-EU860D

IC ID: 3229A-EU860D

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Report Issued Date : Jan. 17, 2007

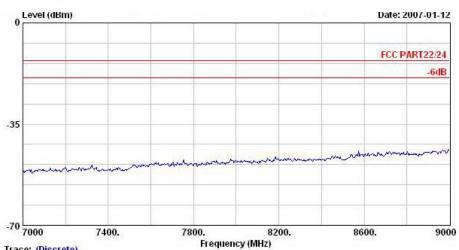
FCC/IC TEST REPORT



Frequency (MHz)

Site Condition EUT Power Model Memo

Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
120Vac/AOHz
FG 710513
HSDPA Link+Adaptox



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Site Condition EUT Power Model Memo

Trace: (Discrete)
03CH06-HY
HF-SPURIOUS VERTICAL
Module
12DVao/AOHz
FG 710513
HSDPA Link+Adaptox

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : NBZNRM-EU860D IC ID : 3229A-EU860D



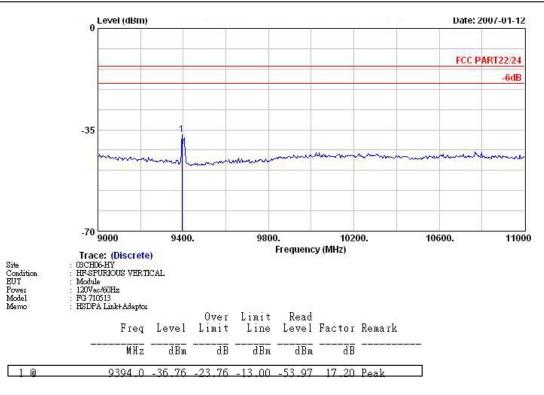
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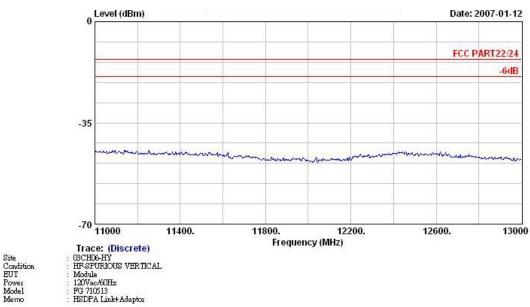
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Remark: There is no more obvious emission except the listings above.

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4.7 Frequency Stability (Temperature Variation)

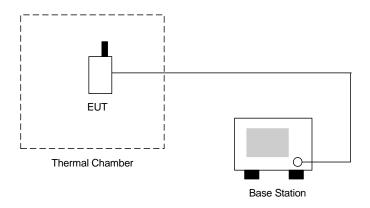
4.7.1 Measurement Instrument

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 : GSM850 (GSM) CH189

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	34	0.02		
-20	-31	-0.02		
-10	28	0.01		
0	22	0.01		
10	26	0.01	2.5	Passed
20	-27	-0.01		
30	-28	-0.01		
40	32	0.02		
50	42	0.02		

Test Mode : GSM850 (EDGE) CH189

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	43	0.02		
-20	-44	-0.02		
-10	38	0.02		
0	27	0.01		
10	24	0.01	2.5	Passed
20	-33	-0.02		
30	-27	-0.01		
40	25	0.01		
50	38	0.02		

Test Mode : PCS1900 (GSM) CH661

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-85	-0.04		
-20	-77	-0.04		
-10	-58	-0.03		
0	42	0.02		
10	33	0.02	2.5	Passed
20	-37	-0.02		
30	42	0.02		
40	48	0.03		
50	71	0.04		

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Test Mode: PCS1900 (EDGE) CH661

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	50	0.03		
-20	47	0.02		
-10	43	0.02		
0	-33	-0.02		
10	42	0.02	2.5	Passed
20	-46	-0.02		
30	34	0.02		
40	48	0.03		
50	44	0.02		

Test Mode: WCDMA Band V CH4182

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	42	0.02		
-20	-33	-0.02		
-10	-28	-0.01		
0	-20	-0.01		
10	27	0.01	2.5	Passed
20	-25	-0.01		
30	-30	-0.02		
40	37	0.02		
50	-40	-0.02		

Test Mode : WCDMA Band V (HSDPA) CH4182

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-41	-0.02		
-20	-39	-0.02		
-10	-26	-0.01		
0	25	0.01		
10	38	0.02	2.5	Passed
20	-32	-0.02		
30	-36	-0.02		
40	-34	-0.02		
50	44	0.02		

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Test Mode: WCDMA Band II CH9400

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-42.00	-0.02		
-20	25.00	0.01		
-10	20.00	0.01		
0	-22.00	-0.01		
10	18.00	0.01	2.5	Passed
20	28.00	0.01		
30	-26.00	-0.01		
40	31.00	0.02		
50	-37.00	-0.02		

Test Mode: WCDMA Band II (HSDPA) CH9400

Test Mode: Weblin Band II (11861 A) 6113400								
Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result				
-30	60.00	0.03						
-20	-55.00	-0.03						
-10	-52.00	-0.03						
0	55.00	0.03						
10	44.00	0.02	2.5	Passed				
20	-36.00	-0.02						
30	38.00	0.02						
40	42.00	0.02						
50	-40.00	-0.02						

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4.8 Frequency Stability (Voltage Variation)

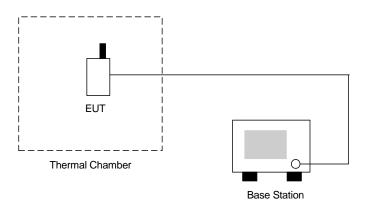
4.8.1 Measurement Instrument

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.
- 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 : GSM850 (GSM) CH189

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.3	-21.0	-0.01		
BEP	18.0	0.01	2.5	Passed
3.8	22.0	0.01		

Test Mode : GSM850 (EDGE) CH189

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.3	-18.0	-0.01		Passed
BEP	25.0	0.01	2.5	
3.8	-22.0	-0.01		

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Test Mode : PCS1900 (GSM) CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.3	39.0	0.02		
BEP	25.0	0.01	2.5	Passed
3.8	-27.0	-0.01		

Test Mode : PCS1900 (EDGE) CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.3	-23.0	-0.01		
BEP	-40.0	-0.02	2.5	Passed
3.8	33.0	0.02		

Test Mode: WCDMA Band V CH4182

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.3	14.0	0.01		
BEP	16.0	0.01	2.5	Passed
3.8	-20.0	-0.01		

Test Mode: WCDMA Band V (HSDPA) CH4182

Voltage(Volt)	Change (Hz)	Change (ppm) Limit (ppm)		Result
3.3	22.0	0.01		
BEP	-24.0	-0.01	2.5	Passed
3.8	25.0	0.01		

Test Mode : WCDMA Band II CH9400

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.3	-20.00	-0.01		
BEP	26.00	0.01	2.5	Passed
3.8	-17.00	-0.01		

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Test Mode: WCDMA Band II (HSDPA) CH9400

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.3	37.00	0.02		
BEP	-29.00	-0.02	2.5	Passed
3.8	-36.00	-0.02		

Remark:

- 1. Normal Voltage=3.3 V.
- 2. Battery End Point (BEP)=2.9 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	MY44211030	9KHz-26.5GHz	Oct. 05, 2006	Oct. 04, 2007	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 13, 2006	Jul. 12, 2007	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Mar. 29, 2006	Mar. 28, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Pre Amplifier	Mini Circuits	ZKL-2	D092004-1	10~2500MHz	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	INN-CO	MM3000	114/8000604/ L	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)

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6 Uncertainty Evaluation

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

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

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertai	inty of x_i			
	dB	Probability	$u(x_i)$	Ci	$Ci*u(x_i)$
	иь	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					
Receiver VSWR Γ1= 0.197	+0.34/-0.35	11 -1	0.244	1	0.244
Antenna VSWR Γ2= 0.194	+0.34/-0.35	U-shaped			
Uncertainty=20log(1-Γ1*Γ2*Γ3)					
Combined standard uncertainty Uc(y)			2.36		
Measuring uncertainty for a level of	470				
confidence of 95% U=2Ue(y)	4.72				

END OF TEST REPORT

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