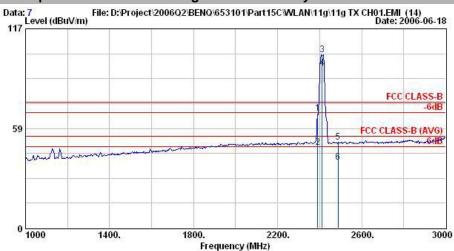
Polarization: Vertical

The test that passed at minimum margin was marked by the frame in the following table.

Report No.

: FR653101



: 03CH06-HY Site

: HF-ANT-060410 VERTICAL Condition EUT GSM850/900/1800/1900 Mobile Phone

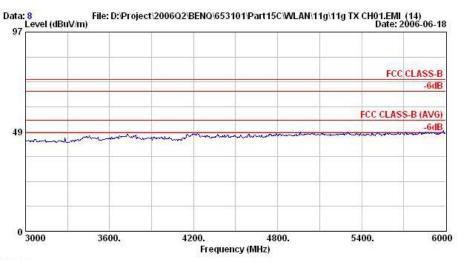
(802.11b and Bluetooth and GPS)

: 120Vac/60Hz : FR653101 Model

: 11g TX CH01;2412MHz Memo

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	\overline{dB}	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\overline{}\overline{d}\overline{B}\overline{u}\overline{V}$	$-\overline{dB/m}$	\overline{dB}	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	cm	deg	ateletetetetetete
1	2390.00	67.44	-6.56	74.00	68.38	30.26	4.26	35.46	100	0	Peak
2 3 X	2390.00	47.40	-6.60	54.00	48.34	30.26	4.26	35.46	112	18	Average
3 X	2412.00	101.67			102.59	30.27	4.29	35.47	100	0	Peak
4 @	2412.00	93.75			94.68	30.27	4.26	35.46	112	18	Average
5	2488.00	50.52	-23.48	74.00	51.38	30.30	4.36	35.51	100		Peak
б	2488.00	38.90	-15.10	54.00	39.75	30.30	4.36	35.51	112	18	Average

Remark: #3 and #4 Fundamental Signal



: 03CH06-HY Site

: HF-ANT-060410 VERTICAL Condition EUT GSM850/900/1800/1900 Mobile Phone : (802.11b and Bluetooth and GPS) : 120Vac/60Hz

Power : FR653101 Model

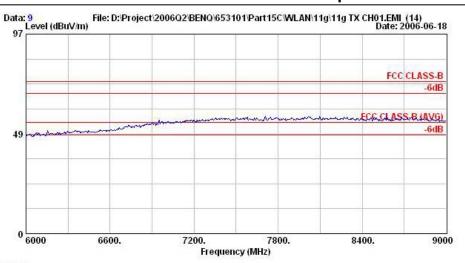
: 11g TX CH01;2412MHz Memo

SPORTON International Inc.

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FCC ID: JVPP51

FCC TEST REPORT Report No. : FR653101



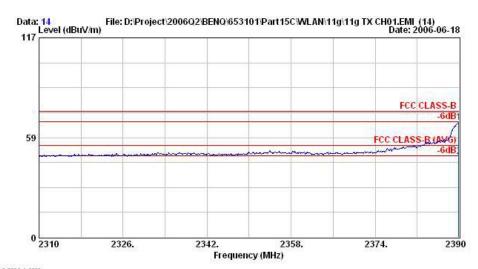
: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

: 120Vac/60Hz Power

Model : FR653101 Memo : 11g TX CH01;2412MHz

Plane : E2



: 03CH06-HY Site

: HF-ANT-060410 VERTICAL Condition EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

120Vac/60Hz Model : FR653101

: 11g TX CH01;2412MHz Memo

12

Freq	Level	Over Limit	Limit Line	Read. Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	\overline{dB}	$\overline{\tt d} \overline{\tt B} \overline{\tt u} \overline{\tt V} \overline{\tt /m}$	dBuV	<u>dB</u> 7m	\overline{dB}	\overline{dB}	cm	deg	etatatatatatatata
2389.92 2389.92										Peak Average

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

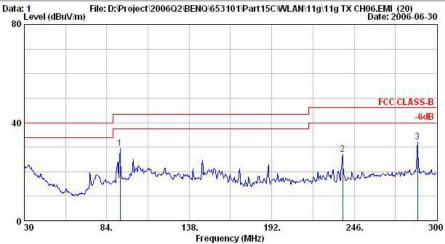
SPORTON International Inc.

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Report No. : FR653101

Test Mode: Mode 5 Polarization: Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



03CH06-HY

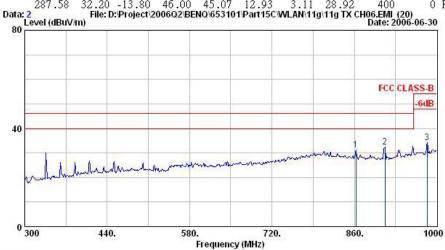
BI-LOG-2004-1122 HORIZONTAL GSM850/900/1800/1900 Mobile Phone Condition EUT (802.11b and Bluetooth and GPS)

120Vac/60Hz Model FR653101

Memo 11g TX CH06;2437MHz

123

Freq	Level		Limit Line				Factor		Pos	Remark	
MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{J}}\overline{\mathtt{m}}$	\overline{dB}	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} /m}$	dBuV	<u>dB/m</u>	<u>dB</u>	$\overline{d}\overline{B}$	cm	deg		
	29.56							400		Peak	
	26.96 32.20	-13.80	46.00	45.07	12.93	3.11	28.92	400 400	0	Peak Peak	



Site

: 03CH06-HY : BI-LOG-2004-1122 HORIZONTAL Condition EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

120Vac/60Hz Model FR653101

Memo : 11g TX CH06;2437MHz

Plane : E2

123

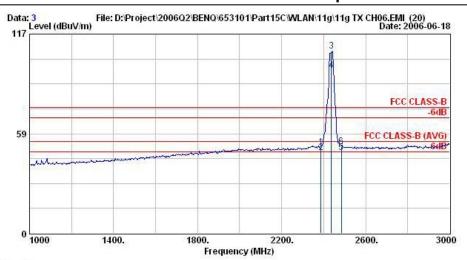
FCC ID: JVPP51

Freq	Level		Limit Line				Preamp Factor		Table Pos	
MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	dB	$\overline{\tt dBuV7m}$	dBuV	dB7m	dB	<u>dB</u>	cm	deg	
911.80	32.37	-13.63	46.00 46.00 54.00	35.05	20.29	5.76	28.73	100 105 100	330	Peak Peak Peak

SPORTON International Inc.

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: 03CH06-HY Site

Condition HF-ANT-060410 HORIZONTAL EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

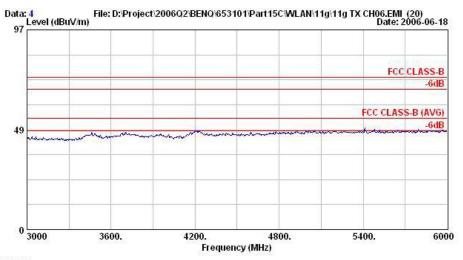
120Vac/60Hz Model : FR653101

11g TX CH06;2437MHz Memo

Plane

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	dB	$\overline{\tt d} \overline{\tt B} \overline{\tt u} \overline{\tt V} 7 \overline{\tt m}$	\overline{dBuV}	−dB/m	$ \overline{d}\overline{B}$	dB	cm	deg	
1 2 3 X 4 @	2388.00 2388.00 2437.00 2437.00	47.38 106.81		74.00 54.00				T0.74.75.35.75	100 100 100 100	0 360	Peak Average Peak Average
5	2483.50		-6.60		48.26	30.29	4.36		100		Average
6	2483.50	50.72	-23.28	74.00	51.58	30.29	4.36	35.51	100	360	Peak

Remark: #3 and #4 Fundamental Signal



: 03CH06-HY : HF-ANT-060410 HORIZONTAL : GSM850/900/1800/1900 Mobile Phone Condition EUT (802.11b and Bluetooth and GPS)

120Vac/60Hz Model : FR653101

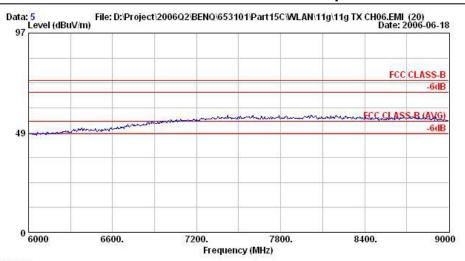
: 11g TX CH06;2437MHz Memo

Plane : E2

SPORTON International Inc.

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Report No. : FR653101



Site

: 03CH06-HY : HF-ANT-060410 HORIZONTAL : GSM8509900/1800/1900 Mobile Phone : (802.11b and Bluetooth and GPS) : 120Vac/60Hz Condition EUT

Model : FR653101

11g TX CH06;2437MHz Memo

Plane

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: JVPP51

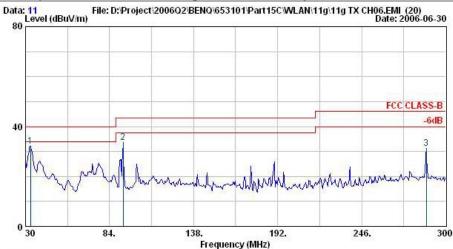
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Report Version : Rev. 01

Report No. : FR653101

Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



: 03CH06-HY Site

: BI-LOG-2004-1122 VERTICAL Condition EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

Power 120Vac/60Hz Model : FR653101

Memo : 11g TX CH06;2437MHz

Plane

123

Freq	Level				Antenna Factor				Table Pos	Remark
MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	\overline{dB}	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBuV	<u>d</u> B/m	dB	dB	cm	deg	
92.64	33.65	-9.85	43.50	51.33	17.73 9.47 12.93	1.67	28.82	125 400 400	0	Peak Peak Peak

Data: 12 Level (dBuV/m) File: D:\Project\2006Q2\BENQ\653101\Part15C\WLAN\11g\11g\TX\CH06.EMI\(20)\\
Date: 2006-06-30 FCC CLASS-B -6dB 40 0 300 440. 720. 860. 1000 Frequency (MHz)

: 03CH06-HY Site : BI-LOG-2004-1122 VERTICAL Condition

EUT GSM850/900/1800/1900 Mobile Phone

: (802.11b and Bluetooth and GPS) : 120Vac/60Hz

Power : FR653101 Model

Memo : 11g TX CH06;2437MHz

Plane

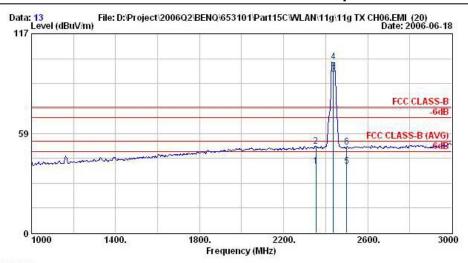
123

Freq	Level	Over Limit	Limit Line	Read. Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	\overline{dB}	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} / \mathtt{m}}$	dBuV	$-\overline{dB/m}$	dB	$\overline{d}\overline{B}$	cm	deg	
939.80	30.12	-15.88	46.00 46.00 54.00	31.75	21.15	6.06		100 100 100	0	Peak Peak Peak

SPORTON International Inc.

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Report No. : FR653101



Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL EUT : GSM850/900/1800/1900 Mobile Phone

: (802.11b and Bluetooth and GPS) : 120Vac/60Hz Power

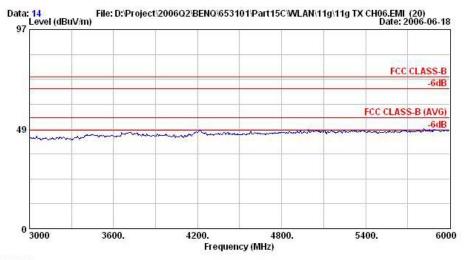
: FR653101 Model

Memo : 11g TX CH06;2437MHz

Plane

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}/\overline{\mathtt{m}}$	\overline{dB}	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBu∇	$-\overline{dB}/m$	<u>dB</u>	<u>dB</u> -	cm	deg	
1 2 3 @ 4 X	2354.00 2354.00 2437.00 2437.00	51.04 92.94	-14.90 -22.96		40.08 52.02 93.84 101.39	30.24 30.24 30.28 30.27	4.20 4.20 4.29 4.29		109 100 109 100	360 15	Average Peak Average Peak
5 6	2500.00 2500.00	39.32	-14.68 -23.42		40.18	30.29	4.36 4.39	35.51	109 100	15	Average Peak

Remark: #3 and #4 Fundamental Signal



Site Condition

: 03CH06-HY : HF-ANT-060410 VERTICAL EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

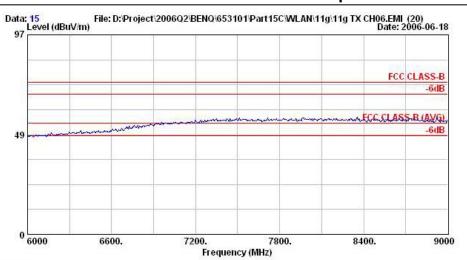
: 120Vac/60Hz : FR653101 Model : 11g TX CH06;2437MHz Memo

Plane

SPORTON International Inc.

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Site Condition

: 03CH06-HY : HF-ANT-060410 VERTICAL : GSM850/900/1800/1900 Mobile Phone : (802.11b and Bluetooth and GPS) : 120Vac/60Hz : FR653101

Model

Memo : 11g TX CH06;2437MHz

Remark: There is no more obvious spurious emission except thelistings above.

SPORTON International Inc.

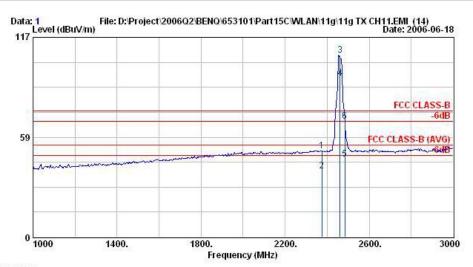
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: JVPP51

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Report No. : FR653101

Test Mode: Mode 6 Polarization: Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Site

: 03CH06-HY : HF-ANT-060410 HORIZONTAL Condition GSM850/900/1800/1900 Mobile Phone EUT (802.11b and Bluetooth and GPS)

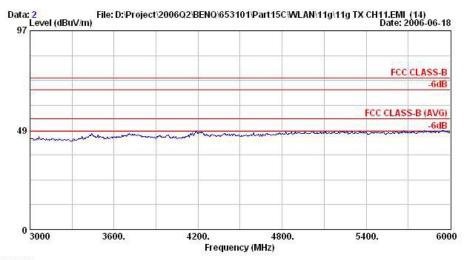
120Vac/60Hz Model : FR653101

: 11g TX CH11;2462MHz Memo

Plane

	Freq	Level	Over Limit			Antenna Factor				Table Pos	Remark
	2042.00	$\overline{dBuV/m}$	\overline{dB}	$\overline{dBuV/m}$	dBuV	$\overline{dB/m}$	\overline{dB}	$\overline{-}\overline{d}\overline{B}$	cm	deg	etetetetetetete
1 2 3 @ 4 @ 5 @	2374.00 2374.00 2462.00 2462.00	38.75 106.44	-23.36 -15.25	74.00 54.00			4.23 4.23 4.33 4.33	35.44 35.49	100 100 100 100	331 360	Peak Average Peak Average
5 @ 6 @	2483.50 2483.50		-8.14 -6.30	54.00 74.00	46.72 68.56	30.29 30.29	4.36		100 100	331	Average Peak

Remark: #3 and #4 Fundamental Signal



: 03CH06-HY Site

: HF-ANT-060410 HORIZONTAL Condition GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

: 120Vac/60Hz : FR653101 Power Model

: 11g TX CH11;2462MHz Memo

Plane

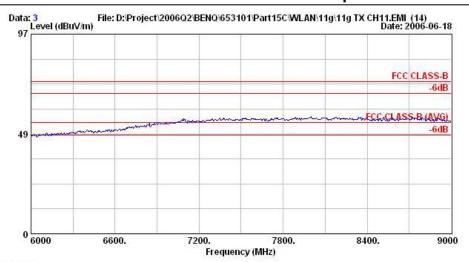
SPORTON International Inc.

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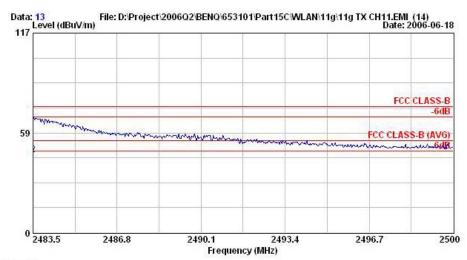
: 03CH06-HY Site

Condition : HF-ANT-060410 HORIZONTAL EUT GSM850/900/1800/1900 Mobile Phone : (802.11b and Bluetooth and GPS) : 120Vac/60Hz

Power : FR653101 Model

Memo : 11g TX CH11;2462MHz

: E2 Plane



Site

: 03CH06-HY : HF-ANT-060410 HORIZONTAL : GSM850/900/1800/1900 Mobile Phone Condition EUT (802.11b and Bluetooth and GPS)

120Vac/60Hz Model : FR653101

: 11g TX CH11;2462MHz Memo

Plane

iarie	. 62	Freq	Level				Antenna Factor		Preamp Factor		Table Pos	Remark
		MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	−dB/m	<u>dB</u>	dB	cm	deg	
1 @ 2 @		2483.50 2483.50								100 100		Peak Average

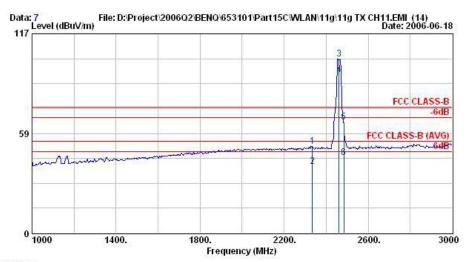
SPORTON International Inc.

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FCC TEST REPORT Report No. : FR653101

Polarization: Vertical

The test that passed at minimum margin was marked by the frame in the following table.



: 03CH06-HY Site

: HF-ANT-060410 VERTICAL Condition EUT GSM850/900/1800/1900 Mobile Phone

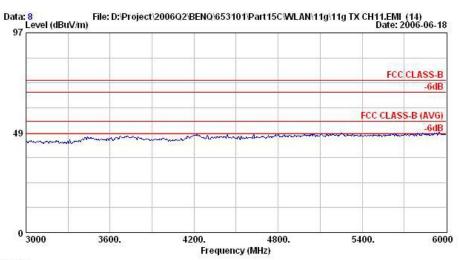
(802.11b and Bluetooth and GPS)

Power : 120Vac/60Hz : FR653101 Model

: 11g TX CH11;2462MHz Memo

	Freq	Level	Over Limit	Limit Line	Kead. Level	Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	,,,,,	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	\overline{dB}	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	\overline{dBuV}	$-\overline{dB/m}$	\overline{dB}	$\overline{-}\overline{d}\overline{B}$	cm	deg	etetetetetetetete
1 2	2334.00 2334.00	T15730000000000	-23.24 -14.86			30.23 30.23	4.17 4.17	35.40 35.40	100 105		Peak Average
2 3 @ 4 @ 5 @	2462.00 2462.00				103.02 93.91	30.29 30.29	4.33		100 105	0	Peak Average
5 @ 6	2483.50 2483.50		-8.84 -9.47		66.02 45.39	30.29 30.29	4.36 4.36	35.51 35.51	100 105	0	Peak Average

Remark: #3 and #4 Fundamental Signal



: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

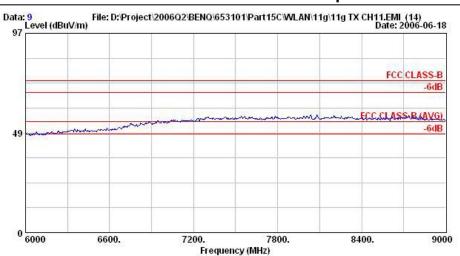
120Vac/60Hz Model : FR653101 : 11g TX CH11;2462MHz Memo

Plane

SPORTON International Inc.

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Report No. : FR653101



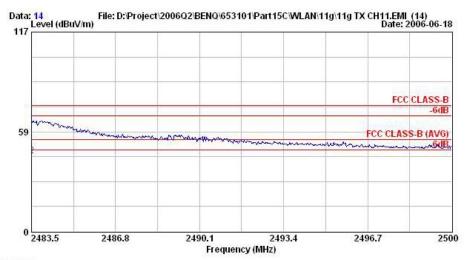
: 03CH06-HY

HF-ANT-060410 VERTICAL GSM850/900/1800/1900 Mobile Phone Condition EUT (802.11b and Bluetooth and GPS)

Power 120Vac/60Hz ModelFR653101

: 11g TX CH11;2462MHz Memo

Plane



: 03CH06-HY Site

Condition HF-ANT-060410 VERTICAL EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS) 120Vac/60Hz

Power Model FR653101

Memo 11g TX CH11;2462MHz

Plane

	Freq	Level		Limit Line							
		МНг	MHz dBuV/m dB dBu	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{7}}\overline{\mathtt{m}}$	dBu₹	$-\overline{dB/m}$	\overline{dB}	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	cm	deg	
1 @ 2	2483.50 2483.50										Peak Average

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

SPORTON International Inc.

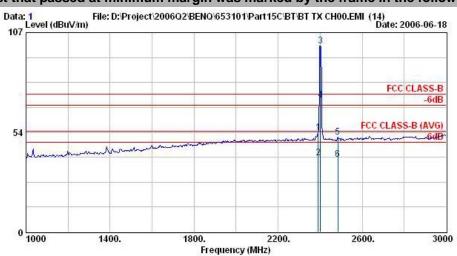
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FCC ID: JVPP51

Report No. : FR653101

Test Mode : Mode 7 Polarization: Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY

: HF-ANT-060410 HORIZONTAL Condition EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

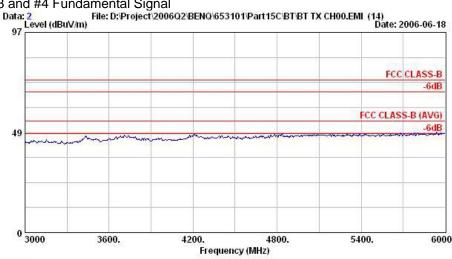
: 120Vac/60Hz : FR653101 Model

Memo : BT TX CH00;2402MHz

Plane Memo : DH1

Freq	Level							Ant Pos		Remark
MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\overline{}\overline{d}\overline{B}\overline{u}\overline{V}$	<u>d</u> B7m	<u>dB</u>	<u>dB</u>	cm	deg	
2390.00	53.25	-20.75	74.00	54.19	30.26	4.26	35.46	100	0	Peak
2390.00	39.65	-14.35	54.00	40.59	30.26	4.26	35.46	100	338	Average
2402.00 2402.00 2483.50 2483.50	5030 - 5050		50.00 - 20.20	7,17, 7,10,7,1	30.26 30.26 30.29	4.36	35.51	100 100 100	0 338 0	Peak Average Peak Average
	MHz 2390.00 2390.00 2402.00 2402.00 2483.50	MHz dBuV7m 2390.00 53.25 2390.00 39.65 2402.00 99.68 2402.00 70.65 2483.50 50.93	Freq Level Limit MHz dBuV/m dB 2390.00 53.25 -20.75 2390.00 39.65 -14.35 2402.00 99.68 2402.00 70.65 2483.50 50.93 -23.07	Freq Level Limit Line MHz dBuV/m dB dBuV/m 2390.00 53.25 -20.75 74.00 2390.00 39.65 -14.35 54.00 2402.00 99.68 2402.00 70.65 2483.50 50.93 -23.07 74.00	Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 2390.00 53.25 -20.75 74.00 54.19 2390.00 39.65 -14.35 54.00 40.59 2402.00 99.68 100.61 2402.00 70.65 71.59 2483.50 50.93 -23.07 74.00 51.79	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB	Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 2390.00 53.25 -20.75 74.00 54.19 30.26 4.26 35.46 2390.00 39.65 -14.35 54.00 40.59 30.26 4.26 35.46 2402.00 99.68 100.61 30.26 4.26 35.46 2402.00 70.65 71.59 30.26 4.26 35.46 2483.50 50.93 -23.07 74.00 51.79 30.29 4.36 35.51	Freq Level Limit Line Level Factor Loss Factor Pos MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm	Freq Level Limit Line Level Factor Loss Factor Pos Pos MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 2390.00 53.25 -20.75 74.00 54.19 30.26 4.26 35.46 100 0 2390.00 39.65 -14.35 54.00 40.59 30.26 4.26 35.46 100 338 2402.00 99.68 100.61 30.26 4.26 35.46 100 0 2402.00 70.65 71.59 30.26 4.26 35.46 100 338 2483.50 50.93 -23.07 74.00 51.79 30.29 4.36 35.51 100 0

Remark: #3 and #4 Fundamental Signal



: 03CH06-HY Site

Condition : HF-ANT-060410 HORIZONTAL EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

: 120Vac/60Hz Model FR653101

Memo BT TX CH00;2402MHz Plane : E2

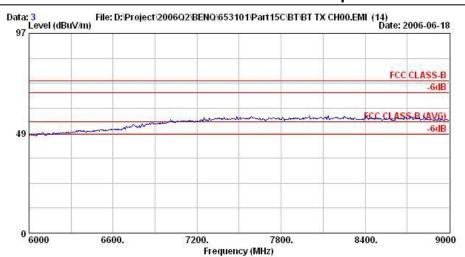
DHI Memo

FCC ID: JVPP51

SPORTON International Inc.

: 100 of 117 TEL: 886-2-2696-2468 Report Issued Date : Jul. 21, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 01

: FR653101 Report No.



: 03CH06-HY Site

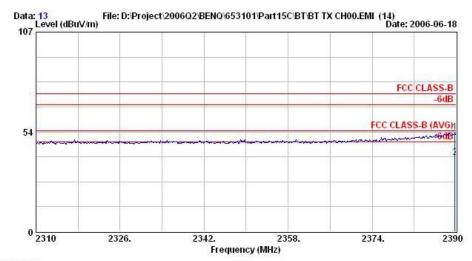
Condition : HF-ANT-060410 HORIZONTAL EUT GSM850/900/1800/1900 Mobile Phone

(802.11b and Bluetooth and GPS)

: 120Vac/60Hz Power Model : FR653101

: BT TX CH00;2402MHz Memo

: E2 Plane DHI Memo



: 03CH06-HY Site

Condition : HF-ANT-060410 HORIZONTAL EUT GSM850/900/1800/1900 Mobile Phone : (802.11b and Bluetooth and GPS) : 120Vac/60Hz

Power Model : FR653101

Memo : BT TX CH00;2402MHz

: E2 Plane

DHI Memo

	Freq	Level		Limit Line							
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	<u>dB</u>	$\overline{\tt dBuV/m}$	dBuV	$-\overline{dB/m}$	<u>dB</u>	<u>dB</u>	cm	deg	
1 2	2389.76 2389.76										Peak Peak

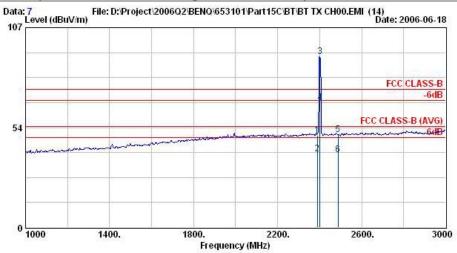
SPORTON International Inc.

: 101 of 117 TEL: 886-2-2696-2468 Report Issued Date : Jul. 21, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 01 FCC ID: JVPP51

FCC TEST REPORT Report No. : FR653101

Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY

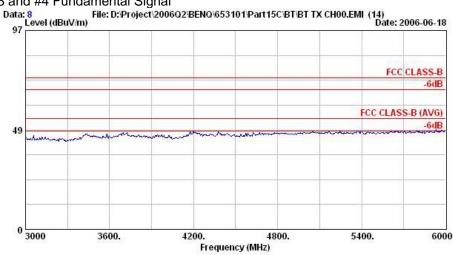
: HF-ANT-060410 VERTICAL Condition EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

120Vac/60Hz Model FR653101 : BT TX CH00;2402MHz Memo

Plane : DH1

	Freq	Level	Uver Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}/\overline{\mathtt{m}}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBuV	$-\overline{dB/m}$	<u>dB</u>	<u>dB</u>		deg	
1 2 3 X 4 X 5	2389.00 2389.00 2402.00 2402.00 2488.00 2488.00	39.26 91.38 66.63 49.85	-24.56 -14.74 -24.15 -14.86	54.00	50.39 40.21 92.32 67.57 50.70 39.99	30.26 30.30	4.23 4.23 4.26 4.26 4.36 4.36	35.44 35.46 35.46 35.51	100 100 100 100 100 100	355 0 355 0	Peak Average Peak Average Peak Average

Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY

: HF-ANT-060410 VERTICAL : GSM850/900/1800/1900 Mobile Phone : (802.11b and Bluetooth and GPS) Condition EUT

: 120Vac/60Hz Model FR653101

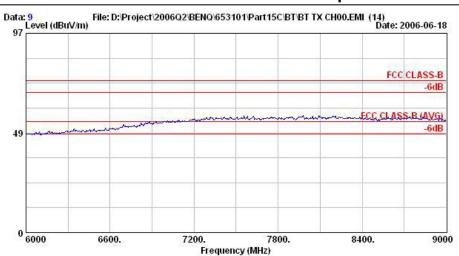
BT TX CH00;2402MHz Memo

Plane : E2 Memo

SPORTON International Inc.

: 102 of 117 TEL: 886-2-2696-2468 Report Issued Date : Jul. 21, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 01 FCC ID: JVPP51

Report No. : FR653101



: 03CH06-HY

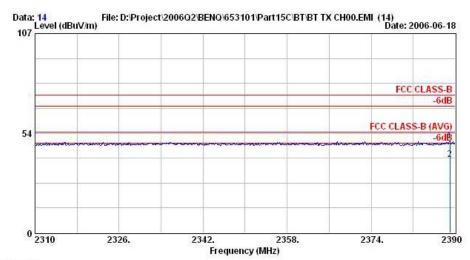
: HF-ANT-060410 VERTICAL : GSM850/900/1800/1900 Mobile Phone Condition EUT

(802.11b and Bluetooth and GPS) : 120Vac/60Hz

Power ModelFR653101

: BT TX CH00;2402MHz : E2 Memo

Plane DHI Memo



: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

: 120Vac/60Hz Power Model : FR653101

BT TX CH00;2402MHz Memo

Plane E2

12

: DH1 Memo

Freq	Level				Antenna Factor			Ant Pos	Table Pos	Remark
MHz	$\overline{\mathtt{dBuV/m}}$	−−−−dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	d₿	cm	deg	
2388.96 2388.96								100 100		Peak Average

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

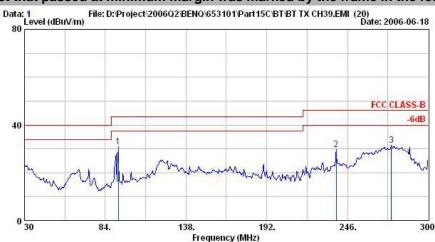
SPORTON International Inc.

: 103 of 117 Page No. TEL: 886-2-2696-2468 Report Issued Date : Jul. 21, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 01 FCC ID: JVPP51

Report No. : FR653101

Test Mode : Mode 8 Polarization: Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY

BI-LOG-2004-1122 HORIZONTAL Condition EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

120Vac/60Hz Model FR653101

BT TX CH39;2441MHz Memo

Plane Memo DHI

ReadAntenna Cable Preamp Over Limit Ant Table Pos Remark Freq Level Limit Line Level Factor Loss Factor Pos MHz dBuV/m dB dBuV/m dBuV dB/m deg cm 92.64 238.44 275.43 30.89 -12.61 29.70 -16.30 31.39 -14.61 43.50 46.00 46.00 48.57 44.97 44.40 9.47 10.87 12.92 1.67 2.79 3.02 28.82 28.93 28.94 400 0 Peak 400 400 0 Peak 0 Peak

720.

860.

1000

1 @ 2 3 1.39 -14.01 40.00 44.40 12.92 3.02 20.97 TV File: D:Project/2006Q2/BENQ/653101/Part15C/BT/BT TX CH39.EMI (20) Date: 2006-06-18 Data: 2 Level (dBuV/m) FCC CLASS-B -6dB 40

580.

Site

03CH06-HY BI-LOG-2004-1122 HORIZONTAL Condition GSM850/900/1800/1900 Mobile Phone EUT

0 300

440.

(802.11b and Bluetooth and GPS) 120 Vac/60 Hz

Power Model FR653101

Memo BT TX CH39;2441MHz Plane E2

Memo

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	dB	$\overline{dBuV/m}$	dBuV	_dB/m	−−−dB	dB	cm	deg	
1 @ 2 @ 3 @	799.80		-10.73	46.00 46.00 46.00	36.61	17.94 21.90 21.00	4.65 5.62 5.97	28.77 28.87 28.82	100 100 100	0	Peak Peak Peak

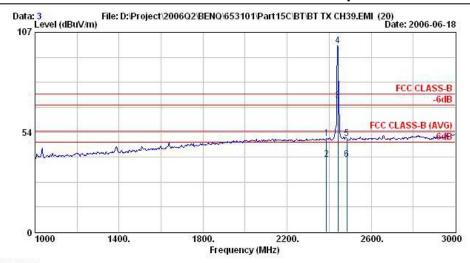
Frequency (MHz)

SPORTON International Inc.

FCC ID: JVPP51

: 104 of 117 Page No. TEL: 886-2-2696-2468 Report Issued Date : Jul. 21, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 01

Report No. : FR653101



: 03CH06-HY Site

Condition : HF-ANT-060410 HORIZONTAL EUT : GSM850/900/1800/1900 Mobile Phone : (802.11b and Bluetooth and GPS)

: 120Vac/60Hz Power : FR653101 Model

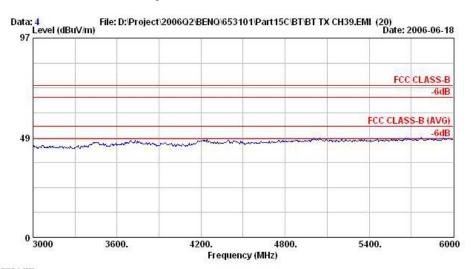
Memo : BT TX CH39;2441MHz

Plane · F2 : DH1 Memo

Over Limit ReadAntenna Freq Level Limit Line Level Factor ReadAntenna Cable Preamp Table Ant Loss Factor Pos Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dΒ deg CM 50.16 -23.84 74.00 38.94 -15.06 54.00 70.49 51.10 39.89 71.38 2388.00 2388.00 2441.00 4.23 4.23 4.33 100 360 Peak 339 Average 339 Average 30.26 30.28 23 100

35.44 35.49 35.47 35.51 100 2441.00 99.74 1 2483.50 50.13 -23.87 74.00 2483.50 39.03 -14.97 54.00 360 Peak 360 Peak 100.64 30.28 4.29 100 456 30.29 74.00 50.99 4.36 100 39.89 30.29 100 339 Average

Remark: #3 and #4 Fundamental Signal



: 03CH06-HY Site

Condition : HF-ANT-060410 HORIZONTAL GSM850/900/1800/1900 Mobile Phone EUT (802.11b and Bluetooth and GPS)

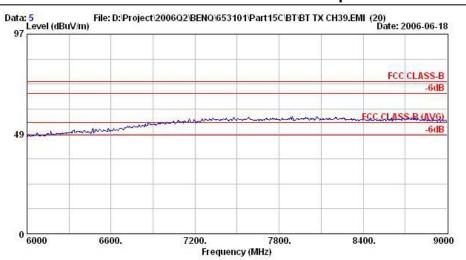
: 120Vac/60Hz Model : FR653101 : BT TX CH39;2441MHz : E2 Memo

Plane : DH1 Memo

SPORTON International Inc.

: 105 of 117 Report Issued Date : Jul. 21, 2006 TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 Report Version : Rev. 01 FCC ID: JVPP51

Report No. : FR653101



Site Condition

: 03CH06-HY : HF-ANT-060410 HORIZONTAL EUT GSM850/900/1800/1900 Mobile Phone

(802.11b and Bluetooth and GPS) 120Vac/60Hz

Power Model : FR653101

Memo : BT TX CH39;2441MHz

: E2 : DH1 Plane Memo

SPORTON International Inc.

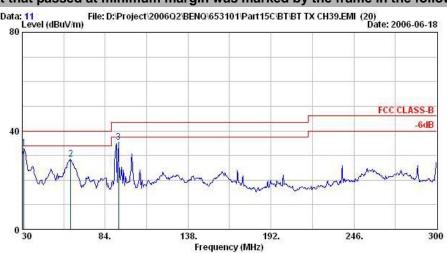
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: JVPP51

: 106 of 117 Report Issued Date : Jul. 21, 2006

Report Version : Rev. 01 FCC TEST REPORT Report No. : FR653101

Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY

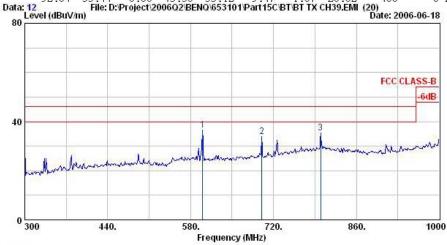
: BI-LOG-2004-1122 VERTICAL Condition GSM850/900/1800/1900 Mobile Phone EUT (802.11b and Bluetooth and GPS)

120Vac/60Hz Model : FR653101

Memo : BT TX CH39;2441MHz

Plane Memo : DH1

Over Limit ReadAntenna Cable Preamp Ant Table Line Level Factor Freq Level Limit Pos Remark Loss Factor Pos \overline{dBuV} $\overline{dB7m}$ MHz dBuV/m dB dBuV/m dB dB deg cm 28.62 28.66 28.82 40.00 18.40 400 0 Peak 28.42 -11.58 40.00 49.32 6.51 1.23 20.33 35.44 -8.06 43.50 53.12 9.47 1.67 28.82 400 0 File: D:Project 2006Q2 BENQ 653101 Part 15C BT BT TX CH39.EMI (20) Date: 2006-06-18 61.59 92.64 0 Peak 0 Peak



: 03CH06-HY Site

: BI-LOG-2004-1122 VERTICAL Condition EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

120Vac/60Hz

Power Model FR653101

Memo BT TX CH39;2441MHz

Plane E2 : DH1 Memo

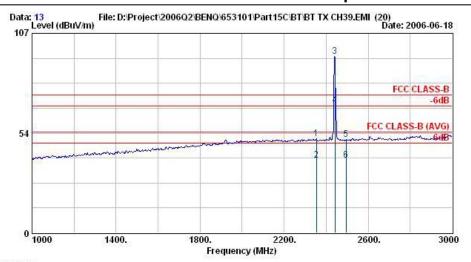
	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{7}\overline{m}$	dBuV	$-\overline{dB7m}$	āB	dB	cm	deg	
1 @ 2 @ 3 @	700.40	36.58 33.95 35.46	-12.05	46.00	38.54	17.94 19.04 21.90	4.65 5.13 5.62	200000000000000000000000000000000000000	100 100 100	0	Peak Peak Peak

SPORTON International Inc.

FCC ID: JVPP51

Page No. : 107 of 117 TEL: 886-2-2696-2468 Report Issued Date : Jul. 21, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 01

: FR653101 Report No.



: 03CH06-HY Site

: HF-ANT-060410 VERTICAL Condition EUT GSM850/900/1800/1900 Mobile Phone

(802.11b and Bluetooth and GPS) : 120Vac/60Hz

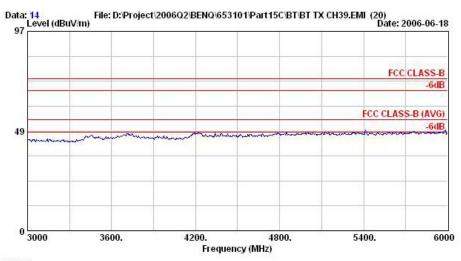
Power ModelFR653101

: BT TX CH39;2441MHz Memo

· F2 Plane DHI Memo

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	<u>dB</u>	$\overline{\tt d}\overline{\tt B}\overline{\tt u}\overline{\tt V}7\overline{\tt m}$	dBu∀	<u>d</u> B7m	<u>dB</u>	<u>dB</u> _	cm	deg	
1 2 3 @ 4 @	2354.00 2354.00 2441.00 2441.00		-23.55 -14.99		51.42 39.99 95.76 69.26	30.24 30.24 30.28 30.28	4.20 4.20 4.29 4.33	35.42 35.47	100 117 100 117	31 0	Peak Average Peak Average
5 6	2494.00 2494.00	50.11	-23.89 -14.91	74.00 54.00	50.95 39.93	30.30 30.30	4.39 4.39	35.53	100 117	0	Peak Average

Remark: #3 and #4 Fundamental Signal



: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL EUT GSM850/900/1800/1900 Mobile Phone : (802.11b and Bhietooth and GPS) : 120Vac/60Hz

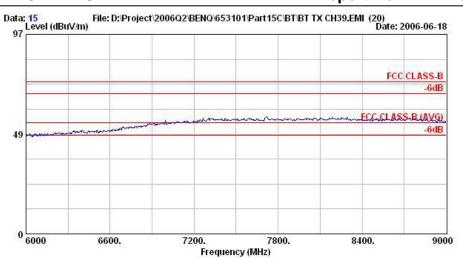
Power Model : FR653101 : BT TX CH39;2441MHz

Memo Plane · E2 : DH1 Memo

SPORTON International Inc.

: 108 of 117 TEL: 886-2-2696-2468 Report Issued Date : Jul. 21, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 01 FCC ID: JVPP51

Report No. : FR653101



Site : 03CH06-HY

: HF-ANT-060410 VERTICAL Condition GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS) EUT

120Vac/60Hz Power Model FR653101

: BT TX CH39;2441MHz Memo

: E2 Plane DHI Memo

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

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: JVPP51

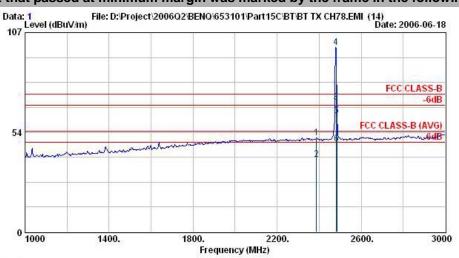
: 109 of 117 Report Issued Date : Jul. 21, 2006

Report Version : Rev. 01

Polarization: Horizontal

Report No. : FR653101 Test Mode : Mode 9

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY

HF-ANT-060410 HORIZONTAL Condition EUT GSM850/900/1800/1900 Mobile Phone (802.11b and Bluetooth and GPS)

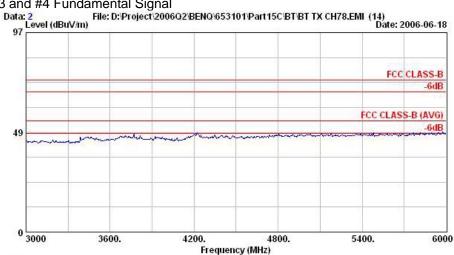
120Vac/60Hz FR653101 Model

Memo BT TX CH78;2480MHz

Plane Memo : DH1

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	<u>dB</u>	$\overline{\mathtt{dBuV7m}}$	dBu∀	$-\overline{dB7m}$	<u>dB</u>	<u>dB</u>	cm	deg	
1 2 3 @	2388.00 2388.00	38.99	-23.28 -15.01	74.00 54.00	51.66 39.94	30.26	4.23 4.23	35.44	100 100	336	Peak Average
4 @ 5	2480.00 2480.00 2483.50	98.91	-11.45	74.00	70.57 99.77 63.41	30.29 30.29 30.29	4.36 4.36 4.36	35.51	100 100 100	0	Average Peak Peak
6 @	2483.50	47.37	-6.63	54.00	48.23	30.29	4.36	35.51	100	336	Average

Remark: #3 and #4 Fundamental Signal



03CH06-HY Site

HF-ANT-060410 HORIZONTAL GSM850/900/1800/1900 Mobile Phone Condition EUT (802.11b and Bluetooth and GPS)

120Vac/60Hz Model FR653101

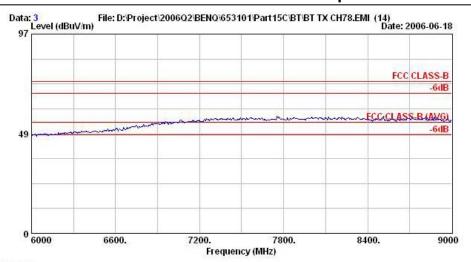
BT TX CH78:2480MHz Memo

Plane DHI

SPORTON International Inc. : 110 of 117 TEL: 886-2-2696-2468 Report Issued Date : Jul. 21, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 01

FCC ID: JVPP51

Report No. : FR653101



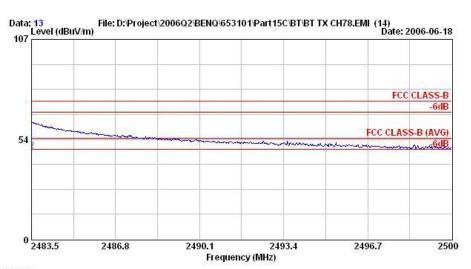
Site : 03CH06-HY

Condition : HF-ANT-060410 HORIZONTAL EUT : GSM850/900/1800/1900 Mobile Phone : (802.11b and Bluetooth and GPS)

: (802.116 and Bluet : 120Vac/60Hz

Model : FR653101 Memo : BT TX CH78;2480MHz

Plane : E2 Memo : DH1



Site : 03CH06-HY

Condition : HF-ANT-060410 HORIZONTAL EUT : GSM850/900/1800/1900 Mobile Phone : (802.11b and Bhetooth and GPS)

Power : 120Vac/60Hz Model : FR653101

Memo : BT TX CH78;2480MHz

Plane : E2 Memo : DH1

	Freq	Level		Limit Line					Ant Pos		Remark
	<u>M</u> Hz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	—dBu∀	$\overline{dB/m}$	<u>dB</u>	<u>dB</u>	cm	deg	
1 2 @	2483.50 2483.50			74.00 54.00				35.51 35.51	100 100		Peak Average

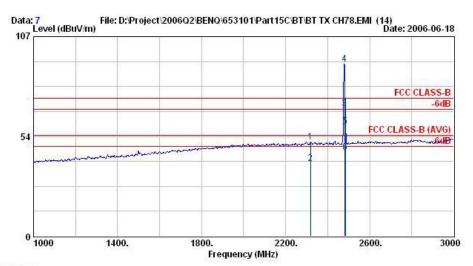
SPORTON International Inc.

TEL : 886-2-2696-2468 FAX : 886-2-2696-2255 FCC ID : JVPP51 Page No. : 111 of 117
Report Issued Date : Jul. 21, 2006
Report Version : Rev. 01

FCC TEST REPORT Report No. : FR653101

Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



: 03CH06-HY

: HF-ANT-060410 VERTICAL : GSM850/900/1800/1900 Mobile Phone Condition EUT

(802.11b and Bluetooth and GPS)

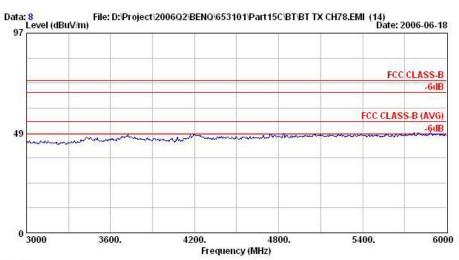
120Vac/60Hz ModelFR653101

: BT TX CH78;2480MHz : E2 Memo

Plane : DH1 Memo

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Rema rk
	MHz	$\overline{\tt d}\overline{\tt B}\overline{\tt u}\overline{\tt V}7\overline{\tt m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBuV	dB/m	<u>dB</u>	dB	cm	deg	
1 2 3 @ 4 @	2318.00 2318.00 2480.00 2480.00	38.93	-23.68 -15.07		51.32 39.93 69.41 93.22	30.23 30.23 30.29 30.29	4.17 4.17 4.36 4.36	35.40 35.40 35.51 35.51	100 110 110 100	29 29	Peak Average Average Peak
5 6 @	2483.50 2483.50	58.85	-15.15	74.00	59.71 45.87	30.29	4.36		100	0	Peak Average

Remark: #3 and #4 Fundamental Signal



: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL GSM850/900/1800/1900 Mobile Phone EUT : (802.11b and Bluetooth and GPS)

: 120Vac/60Hz

ModelFR653101

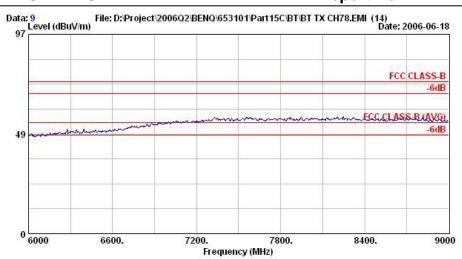
: BT TX CH78;2480MHz Memo : E2 Plane

SPORTON International Inc.

: 112 of 117 TEL: 886-2-2696-2468 Report Issued Date : Jul. 21, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 01

FCC ID: JVPP51

Report No. : FR653101



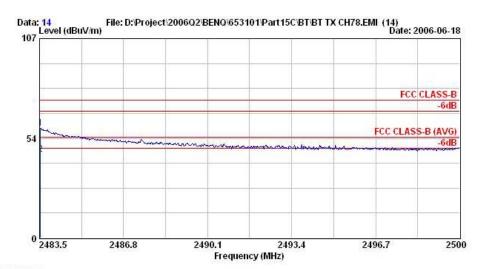
: 03CH06-HY

: HF-ANT-060410 VERTICAL : GSM850/900/1800/1900 Mobile Phone : (802.11b and Bluetooth and GPS) Condition EUT

Power : 120Vac/60Hz Model: FR653101

: BT TX CH78;2480MHz Memo

Plane · E2 : DH1 Memo



: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL GSM850/900/1800/1900 Mobile Phone EUT : (802.11b and Bluetooth and GPS)

: 120Vac/60Hz : FR653101

: BT TX CH78;2480MHz Memo

Plane : E2 : DH1 Memo

	Freq	Level		Limit Line						Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	—dBu∀	$-\overline{dB/m}$	<u>dB</u>	<u>dB</u>		deg	
1 2 @	2483.53 2483.53								100 110		Peak Average

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

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5.12 Antenna Requirements

5.12.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

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And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

5.12.2 Antenna Connected Construction

The antennas used in this product are Patch antennas for both WLAN and BT without antenna connector and it is considered to meet antenna requirement of FCC.

5.12.3 Antenna Gain

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output powen limit.

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6. List of Measuring Equipments Used

		• •					
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Feb. 22, 2006	Feb. 22, 2007	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Mar. 29, 2006	Mar. 29, 2007	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/004	9kHz – 30MHz	Apr. 19, 2006	Apr. 19, 2007	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450Hz	N/A	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 – 60Hz	N/A	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9kHz – 30MHz	Dec. 22, 2005	Dec. 22, 2006	Conduction (CO01-HY)
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Dec. 22, 2005	Dec. 22, 2006	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 25, 2005	Jul. 24, 2006	Radiation (03CH06-HY)
Controller	СТ	SC100	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 22, 2004	Nov. 22, 2006	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Nov. 22, 2004	Nov. 22, 2006	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBEC K	BBHA 9170	9170-249	14G - 40G	Feb. 1, 2005	Feb. 1, 2007	Radiation (03CH06-HY)
HF Amplifier	MITEQ	AFS44	973248	0.1G - 26.5G	Jul. 21, 2005	Jul. 20, 2006	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jul. 21, 2005	Jul. 20, 2006	Radiation (03CH06-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)

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7. Uncertainty Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of X_i		$u(x_i)$		
	4D		Probability	$u(x_i)$	
	dB	Distribution			
Receiver reading	0.10	Normal(k=2)	0.05		
Cable loss	0.10	Normal(k=2)	0.05		
AMN insertion loss	2.50	Rectangular	0.63		
Receiver Spec	1.50	Rectangular	0.43		
Site imperfection	1.39	Rectangular	0.80		
Mismatch	+0.34/-0.35	U-shape	0.24		
combined standard uncertainty Uc(y)	1.13				
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.26				

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

Contribution	Uncertainty of x_i			
	Proba	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 of 95% U=2Uc(y)	2.54			

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

Contribution	Uncertainty of $^{\mathcal{X}_i}$		()	C:	$Ci*u(x_i)$
	dB	Probability	$u(x_i)$	Ci	$Ci \cdot u(x_i)$
		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	U-shaped	0.244	1	0.244
Antenna VSWR Γ2= 0.194					
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=2Ue(y)					

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