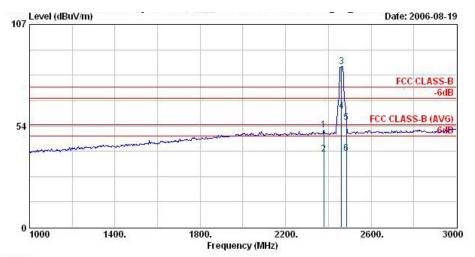
Report No. : FR681418

Polarization : Vertical

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



: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL

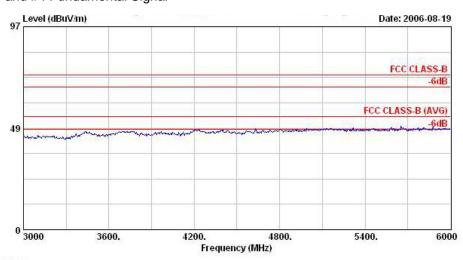
EUT Smart Phone Power 120Vac/60Hz Model : FR 681418

: 11g Tx_CH11;2462MHz Memo

Plane Data Rate : 6

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	100070	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{/}}\overline{\mathtt{m}}$	$ \overline{d}\overline{B}$	$\overline{\tt dBuV/m}$	dBu∇	$\overline{dB/m}$	<u>dB</u>	dB	cm	deg	
1 2 3 @ 4 @	2378.00 2378.00 2462.00 2462.00		1000000	74.00 54.00	52.24 39.65 85.69 62.04	30.25 30.25 30.29 30.29	4.23 4.23 4.36 4.33	35.44 35.51	100 100 100 100	153 0	Peak Average Peak Average
5 6	2484.00 2484.00		-18.81 -15.03	74.00 54.00	56.05 39.83	30.29 30.29	4.36 4.36	35.51	100 100	0	Peak Average

Remark: #3 and #4 Fundamental Signal



: 03CH06-HY : HF-ANT-060410 VERTICAL Condition

EUT : Smart Phone : 120Vac/60Hz Power Model : FR 681418

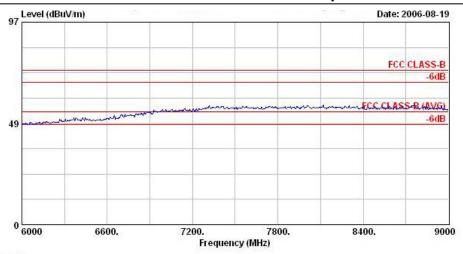
: 11g Tx_CH11;2462MHz Memo

Plane : E2 Data Rate : 6

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UJU9QSTEAL000 Page No. : 108 of 127 Report Issued Date : Sep. 07, 2006

Report No. : FR681418



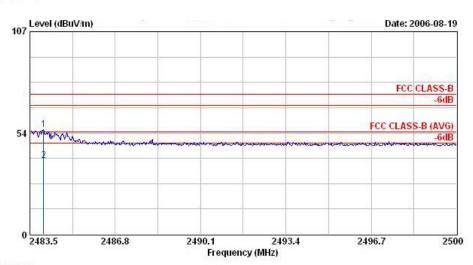
Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL

EUT : Smart Phone Power : 120Vac/60Hz Model : FR 681418

Memo : 11g Tx_CH11;2462MHz

Plane : E2 Data Rate : 6



Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL

EUT : Smart Phone Power : 120Vac/60Hz Model : FR 681418

Memo : 11g Tx_CH11;2462MHz

Plane : E2 Data Rate : 6

	Freq	Level				Antenna Factor				Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{/m}}$	$ \overline{d}\overline{B}$	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	dBuV	$-\overline{dB7m}$	$ \overline{d}\overline{B}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	CM	deg	
1 2 @	2484.03 2484.03										Peak Average

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

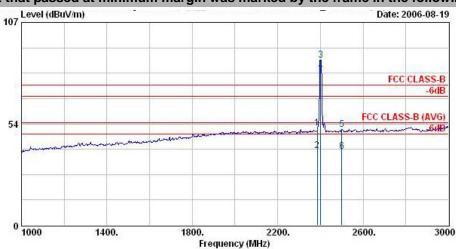
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UJU9QSTEAL000 Page No. : 109 of 127
Report Issued Date : Sep. 07, 2006

Report No. : FR681418

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

Condition : HF-ANT-060410 HORIZONTAL

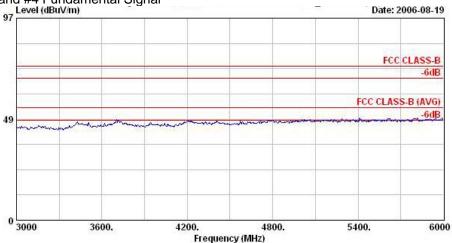
EUT : Smart Phone : 120Vac/60Hz Power : FR 681418 Model

Memo : BT Tx_CH00;2402MHz

Plane Data Rate : DHS

	F req	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	\overline{dB}	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{J}}\overline{\mathtt{m}}$	—dBu∀	dB7m	−−−−dB	dB	cm	deg	
1 2 3 4 @ 5 6	2386.00 2386.00 2402.00 2402.00 2500.00 2500.00	39.23 87.24 81.66 50.44	-22.79 -14.77 -23.56 -14.97		52.16 40.18 88.17 82.60 51.28 39.87	C0000 - 30000	4.23 4.23 4.26 4.26 4.39 4.39	35.44 35.46 35.46 35.53	100 100 100 100 100 100	348 360 348 360	Peak Average Peak Average Peak Average

Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL

EUT : Smart Phone Power : 120Vac/60Hz Model : FR 681418

: BT Tx_CH00;2402MHz Memo

Plane : E1 Data Rate : DHS

SPORTON International Inc.

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Report No. : FR681418

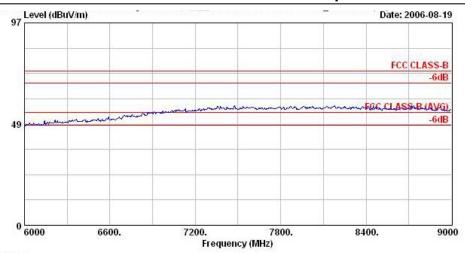
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Report Issued Date : Sep. 07, 2006



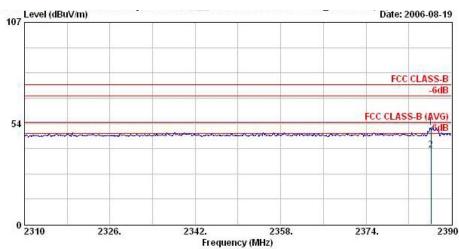
Site

: 03CH06-HY : HF-ANT-060410 HORIZONTAL Condition

EUT Smart Phone 120Vac/60Hz Model

: FR 681418 : BT Tx_CH00;2402MHz Memo

Plane : E1 Data Rate : DHS



: 03CH06-HY Site

: HF-ANT-060410 HORIZONTAL Condition

: Smart Phone : 120Vac/60Hz EUT Power Model : FR 681418

Memo : BT Tx_CH00;2402MHz

Plane Data Rate : DHS

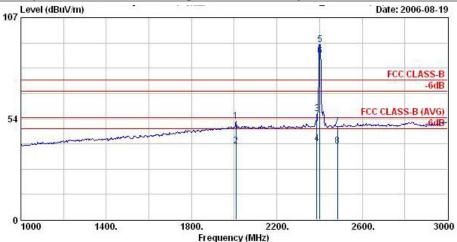
	Freq	Level				Antenna Factor				Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	dB	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBuV	$-\overline{dB/m}$	<u>dB</u>	d B	cm	deg	
1 2	2386.16 2386.16								100 100		Peak Average

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UJU9QSTEAL000 FCC TEST REPORT Report No. : FR681418

Polarization : Vertical

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



Site

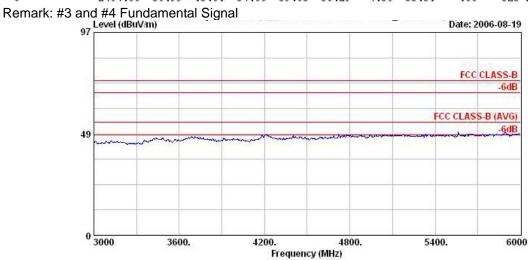
: 03CH06-HY : HF-ANT-060410 VERTICAL Condition

Smart Phone EUT 120Vac/60Hz Power Model FR 681418

: BT Tx_CH00;2402MHz Memo

Plane : E1 Data Rate : DHS

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} / \mathtt{m}}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	—dBu∀	$-\overline{dB/m}$	<u>dB</u>	\overline{dB}	cm	deg	
1	2008.00	52.05	-21.95	74.00	53.35	30.10	3.79	35.19	100	0	Peak
2	2008.00	39.00	-15.00	54.00	40.30	30.10	3.79	35.19	100	325	Average
3	2387.00	56.12	-17.88	74.00	57.07	30.26	4.23	35.44	100		Peak
4	2387.00	40.12	-13.88	54.00	41.07	30.26	4.23	35.44	100	325	Average
5 @	2402.00	92.49			93.42	30.27	4.26	35.46	100	0	Peak
6 @	2402.00	86.82			87.76	30.26	4.26	35.46	100	325	Average
7	2484.00	49.46	-24.54	74.00	50.32	30.29	4.36	35.51	100	0	Peak
8	2484.00	38.99	-15.01	54.00	39.85	30.29	4.36	35.51	100	325	Average



: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL

EUT Smart Phone 120Vac/60Hz Power Model : FR 681418

: BT Tx_CH00;2402MHz Memo

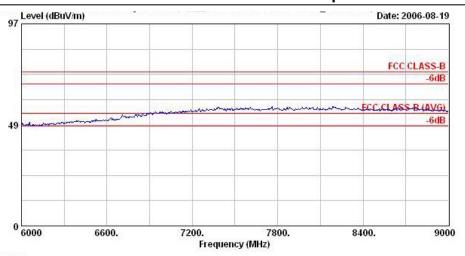
Plane Data Rate : DH5

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UJU9QSTEAL000

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FCC TEST REPORT Report No. : FR681418



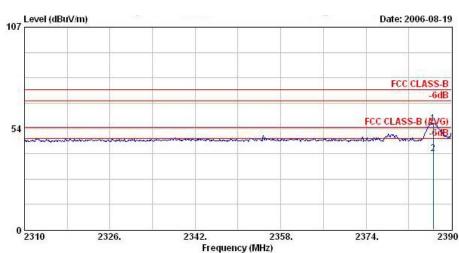
Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL

EUT : Smart Phone Power : 120Vac/60Hz Model : FR 681418

Memo : BT Tx_CH00;2402MHz

Plane : El Data Rate : DHS



Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL

EUT : Smart Phone
Power : 120Vac/60Hz
Model : FR 681418
Memo : BT Tx_CH00;2402MHz

Plane : E1 Data Rate : DHS

	Freq	Level				Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{/}}\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	—dBu∀	$-\overline{dB7m}$	<u>dB</u>	\overline{dB}	cm	deg	sininininininininini
1	2386.56	56.12	-17.88	74.00	57.07	30.26	4.23	35.44	100	0	Peak
2 @	2386.56	40.12	-13.88	54.00	41.07	30.26	4.23	35.44	100	325	Average

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

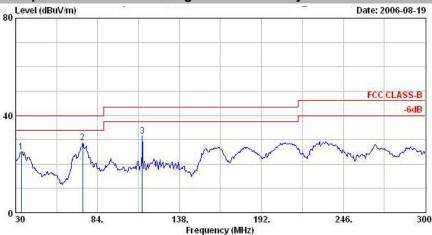
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UJU9QSTEAL000

Report No. : FR681418

Test Mode : Mode 8 Polarization: Horizontal

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



: 03CH06-HY Site

Condition BI-LOG-2004-1122 HORIZONTAL

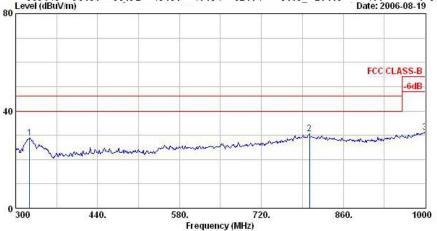
EUT Smart Phone 120Vac/60Hz Power Model FR 681418

: BT Tx_CH39;2441MHz Memo

Plane : E1 Data Rate : DH5

2 @

Over Limit ReadAntenna Cable Preamp Ant Table Freq Level Limit Line Level Factor Loss Factor Pos Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m \overline{dB} deg cm 33.78 25.05 -14.95 74.28 28.74 -11.26 113.43 31.58 -11.92 40.00 40.00 43.50 35.24 49.36 46.54 0 Peak 28.64 28.70 28.89 17.40 1.04 400 6.63 1.45 100 211 Peak 400 0 Date: 2006-08-19 Peak Level (dBuV/m) FCC CLASS-B



Site : 03CH06-HY

Condition : BI-LOG-2004-1122 HORIZONTAL

EUT Smart Phone Power Model 120Vac/60Hz FR 681418 Memo

BT Tx_CH39;2441MHz Plane

Data Rate : DH5

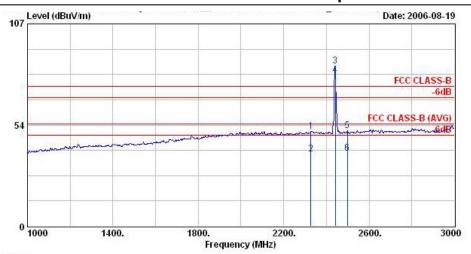
ReadAntenna Cable Preamp Ant Table Over Limit Pos Remark Freq Level Limit Line Level Factor Loss Factor Pos MHz dBuV/m dB dBuV/m dBuV dB/m deg cm 28.99 -17.01 30.53 -15.47 46.00 40.91 13.65 46.00 31.93 21.86 54.00 30.72 22.97 3.38 5.61 28.95 28.88 28.79 100 0 Peak 23 100 0 Peak 1000.00 31.14 -22.86 6.24 100 0 Peak

SPORTON International Inc.

FCC ID: UJU9QSTEAL000

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Report No. : FR681418



Site

: 03CH06-HY : HF-ANT-060410 HORIZONTAL Condition

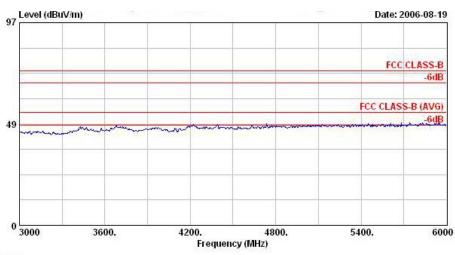
EUT Smart Phone 120Vac/60Hz : FR 681418 : BT Tx_CH39;2441MHz Model

Memo

Plane El Data Rate

			0ver	Limit	Read.	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	$\overline{\tt d} \overline{\tt B} \overline{\tt u} \overline{\tt V} \overline{\tt /m}$	\overline{dB}	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	\overline{dBuV}	$-\overline{dB/m}$	$\overline{d}\overline{B}$	dB	cm	deg	
1	2328.00	49.98	-24.02	74.00	50.98	30.23	4.17	35.40	100	0	Peak
2	2328.00	38.38	-15.62	54.00	39.38	30.23	4.17	35.40	100	274	Average
2 3 @ 4 @	2441.00	84.64			85.54	30.28	4.29	35.47	100	0	Peak
4 @	2441.00	79.99			80.88	30.28	4.33	35.49	100	274	Average
5	2498.00	50.33	-23.67	74.00	51.17	30.30	4.39	35.53	100	0	Peak
6	2498.00	38.65	-15.35	54.00	39.49	30.30	4.39	35.53	100	274	Average

Remark: #3 and #4 Fundamental Signal



Site

: 03CH06-HY : HF-ANT-060410 HORIZONTAL Condition EUT

: Smart Phone : 120Vac/60Hz Power Model : FR 681418

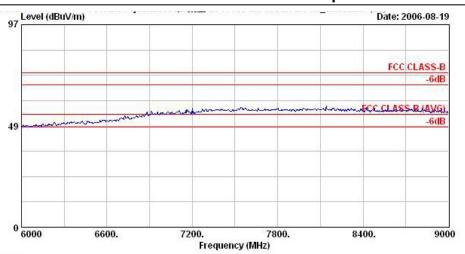
Memo : BT Tx_CH39;2441MHz

: E1 Plane Data Rate : DH5

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UJU9QSTEAL000 Page No. : 115 of 127 Report Issued Date : Sep. 07, 2006

Report No. : FR681418



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Smart Phone
Power : 120Vac/60Hz Model : FR 681418

: BT Tx_CH39;2441MHz : E1 Memo

Plane : El Data Rate : DHS

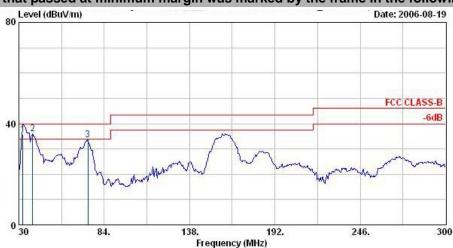
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UJU9QSTEAL000 Page No. : 116 of 127 Report Issued Date : Sep. 07, 2006

FCC TEST REPORT Report No. : FR681418

· Polarization : Vertical

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



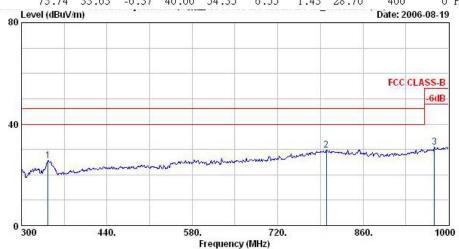
: 03CH06-HY : BI-LOG-2004-1122 VERTICAL : Smart Phone

Condition EUT 120Vac/60Hz Power Model FR 681418

: BT Tx_CH39;2441MHz Memo

Plane : E1 Data Rate : DH5

	Freq	Level				Antenna Factor			Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$ \overline{d}\overline{B}$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	$-\overline{dB/m}$	<u>dB</u>	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	cm	deg	
1 @	32.43	35.61	-4.39	40.00	45.50	17.73	1.01	28.63	100	281	OP
2 @	38.64	35.88	-4.12	40.00	48.04	15.28	1.23	28.66	400	0	Peak
3 @	73.74	33.63	-6.37	40.00	54.35	6.55	1.43	28.70	400	0	Peak



Site : 03CH06-HY

Condition : BI-LOG-2004-1122 VERTICAL

EUT Smart Phone Power Model : 120Vac/60Hz : FR 681418

Memo : BT Tx_CH39;2441MHz

Plane Data Rate : DHS

123

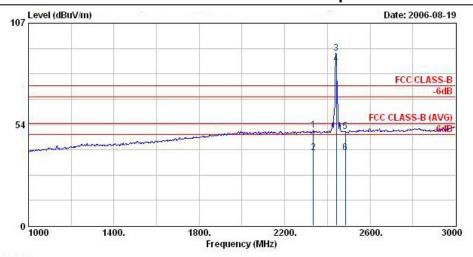
FCC ID: UJU9QSTEAL000

Freq	Level		Limit Line				Preamp Factor	Ant Pos	Table Pos	Remark
MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{J}}\overline{\mathtt{m}}$	$ \overline{d}\overline{B}$	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{7}\overline{m}$	—dBu∇	$-\overline{dB7m}$	−−−−dB	$-\overline{dB}$	cm	deg	
799.80	29.69	-16.31	46.00 46.00 54.00	31.04	21.90	5.62	29.00 28.87 28.83	100 100 100	0	Peak Peak Peak

SPORTON International Inc.

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Report No. : FR681418



: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL

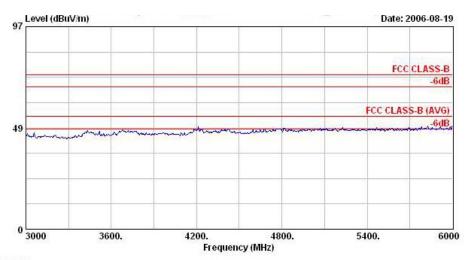
EUT Smart Phone Power 120Vac/60Hz Model : FR 681418

BT Tx_CH39;2441MHz Memo

Plane : E1 Data Rate

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} / \mathtt{m}}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}7m$	-dBuV	$-\overline{dB/m}$	<u>dB</u>	<u>dB</u>	cm	deg	
1 2 3 @ 4 @	2334.00 2334.00 2441.00 2441.00	38.51 91.28	-23.63 -15.49	74.00 54.00	51.38 39.51 92.18 86.45	30.23 30.28	4.17 4.17 4.29 4.33	35.40 35.47	100 100 100 100	252 360	Peak Average Peak Average
5 6	2484.00 2484.00			74.00 54.00	50.70 39.51			35.51 35.51	100 100		Peak Average

Remark: #3 and #4 Fundamental Signal



Site Condition : 03CH06-HY

: HF-ANT-060410 VERTICAL

EUT Smart Phone 120Vac/60Hz Power Model

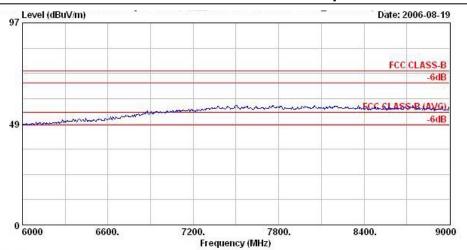
: FR 681418 : BT Tx_CH39;2441MHz Memo

Plane : E1 Data Rate : DHS

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UJU9QSTEAL000 Page No. : 118 of 127 Report Issued Date : Sep. 07, 2006





Site

: 03CH06-HY : HF-ANT-060410 VERTICAL Condition

EUT Smart Phone 120Vac/60Hz Model

: FR 681418 : BT Tx_CH39;2441MHz Memo

Plane El : DHS

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

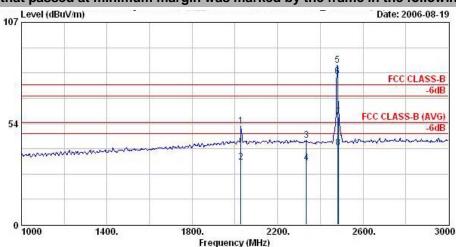
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UJU9QSTEAL000 Page No. : 119 of 127 Report Issued Date : Sep. 07, 2006 Report Version : Rev. 02

Report No. : FR681418

Test Mode : Mode 9 Polarization: Horizontal

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



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL

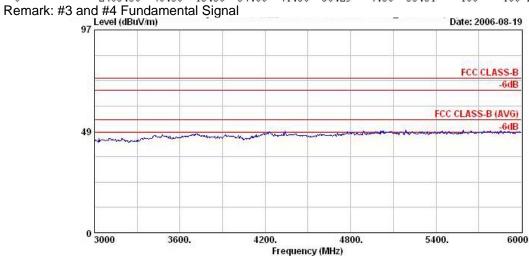
EUT : Smart Phone 120Vac/60Hz Power Model FR 681418

: BT Tx_CH78;2480MHz Memo

Plane · E1 Data Rate : DHS

234567

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{/}}\overline{\mathtt{m}}$	\overline{dB}	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBu∀	$\overline{dB/m}$	−−−−dB	\overline{dB}	cm	deg		
	2028.00 2028.00	52.10 33.10	-21.90 -20.90	74.00 54.00	53.39 34.39	30.11 30.11	3.79 3.79	35.19 35.19	100 100		Peak Average	
3	2334.00	44.57	-29.43	74.00	45.58	30.23	4.17	35.40	100	0	Peak	
! 5 @ 5 @	2334.00 2480.00	84.36	-21.46	54.00	33.54 85.22	30.23 30.29	4.17 4.36	35.40 35.51	100 100	0	Average Peak	
5 @ 7	2480.00 2483.50	78.36 57.06	-16.94	74.00	79.22 57.92	30.29 30.29	4.36 4.36		100 100		Average Peak	
3	2483.50	40.50	-13.50	54.00	41.36	30.29	4.36	35.51	100	106	Average	



Site

: 03CH06-HY : HF-ANT-060410 HORIZONTAL Condition

EUT : Smart Phone 120Vac/60Hz Power FR 681418

: BT Tx_CH78;2480MHz Memo

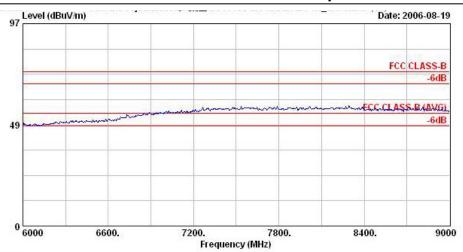
Plane : El Data Rate : DHS

SPORTON International Inc.

: 120 of 127 TEL: 886-2-2696-2468 Report Issued Date : Sep. 07, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 02

FCC ID: UJU9QSTEAL000

: FR681418 Report No.



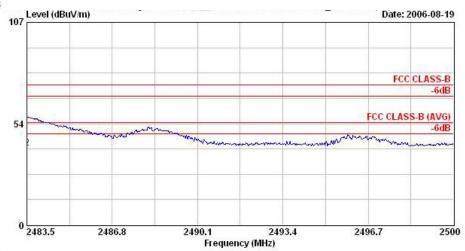
Site

: 03CH06-HY : HF-ANT-060410 HORIZONTAL

Condition EUT Smart Phone Power 120Vac/60Hz Model FR 681418

BT Tx_CH78;2480MHz Memo

Plane E1 Data Rate : DH5



Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL

EUT Smart Phone Power $120 \mathrm{Vac}/60 \mathrm{Hz}$ Model FR 681418

: BT Tx_CH78;2480MHz Memo

Plane El Data Rate : DHS

	37 C C C C C C C C C C C C C C C C C C C	Level		Limit Line						Table Pos	Remark
		$\overline{\tt d} \overline{\tt B} \overline{\tt u} \overline{\tt V} \overline{\tt /m}$	dB	$\overline{\tt d} \overline{\tt B} \overline{\tt u} \overline{\tt V} 7 \overline{\tt m}$	dBuV	$-\overline{dB7m}$	−−−−dB	\overline{dB}	cm	deg	
1 2	2483.50 2483.50								100 100		Peak Average

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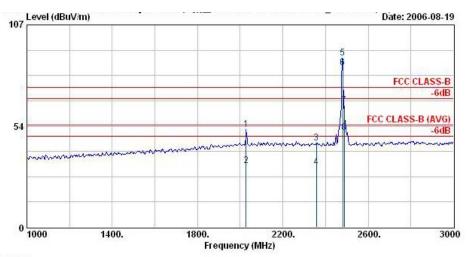
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Polarization : Vertical

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



Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL

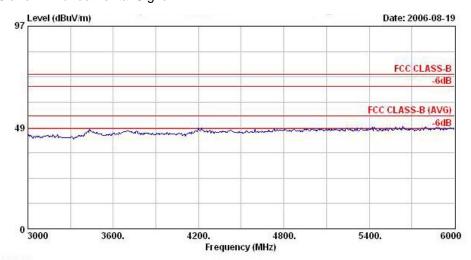
EUT : Smart Phone Power : 120Vac/60Hz Model : FR 681418

Memo : BT Tx_CH78;2480MHz

Plane : E1 Data Rate : DHS

Jaia Raie . Dilj	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	<u>dB</u>	$\overline{\tt d}\overline{\tt B}\overline{\tt u}\overline{\tt V}7\overline{\tt m}$	<u>dBu</u> V	$-\frac{1}{dB}\sqrt{m}$	<u>dB</u>	<u>dB</u> -	cm	deg	
1	2028.00	51.54	-22.46	74.00	52.83	30.11	3.79	35.19	100	360	Peak
2	2028.00	32.77	-21.23	54.00	34.06	30.11	3.79	35.19	100	260	Average
3	2358.00	44.75	-29.25	74.00	45.72	30.24	4.20	35.42	100	360	Peak
4	2358.00	31.92	-22.08	54.00	32.90	30.24	4.20	35.42	100	260	Average
5 @	2480.00	89.33			90.19	30.29	4.36	35.51	100		Peak
6 @	2480.00	84.18			85.04	30.29	4.36	35.51	100	260	Average
7	2488.00	64.38	-9.62	74.00	65.24	30.29	4.36	35.51	100		Peak
8 @	2488.00	50.07	-3.93	54.00	50.92	30.30	4.36	35.51	100	260	Average

Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL

EUT: Smart Phone Power: 120Vac/60Hz Model: FR 681418

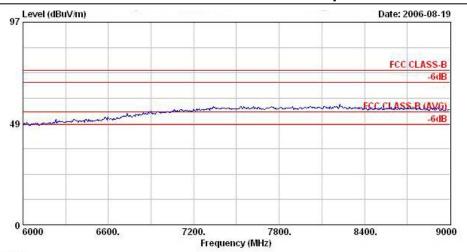
Model : FR 681418 Memo : BT Tx_CH78;2480MHz

Plane : El Data Rate : DHS

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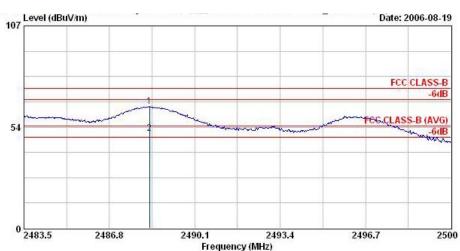
: 03CH06-HY Site

Condition HF-ANT-060410 VERTICAL

EUT Smart Phone Power 120Vac/60Hz Model

: FR 681418 : BT Tx_CH78;2480MHz Memo

Plane El Data Rate : DH5



: 03CH06-HY : HF-ANT-060410 VERTICAL Condition

EUT Smart Phone 120Vac/60Hz Power Model FR 681418

BT Tx_CH78;2480MHz Memo

Plane : E1 Data Rate : DH5

	Freq	Level		Limit Line				Preamp Factor		Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBu∀	−dB/m	<u>dB</u>	\overline{dB}	cm	deg	
1 2 @	2488.35 2488.35								100 100		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 Chip 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	Due Date	Remark
					Date	. 3.3 = 3.30	
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	Jul. 25, 2006	Jul. 24, 2007	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jun. 28, 2006	Jun. 27, 2007	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	Feb. 1, 2005	Feb. 1, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBEC K	BBHA 9170	9170-249	14G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jul. 21, 2006	Jul. 20, 2007	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	Uncerta	()		
	dB	Probability	$u(x_i)$	
	G D	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		

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

Contribution	Uncerta	()		
	٩D	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)

Candribution		r				
Contribution	Uncerta	inty of X_i		Ci	$Ci*u(x_i)$	
	dB	Probability	$u(x_i)$		$u(x_i)$	
		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	+0.34/-0.33					
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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