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EMI CERTIFICATION REPORT

CASIO HITACHI Mobile Communications Co., Ltd.

2-229-1, Sakuragaoka, Higashiyamato-shi,
Tokyo 207-8501, Japan

Date of Issue: June 24, 2009
Test Report No.: HCT-EF09-0613
Test Site: HCT CO., LTD.
HCT FRN: 0005-8664-21

FCC ID:

TYKNX9270

Classification / Standard(s)	: FCC PART 15 Subpart B / CISPR 22 Class B
Equipment type	: Dual-Band CDMA/EV-DO Phone with Bluetooth
Trade name / Model(s)	: CASIO HITACHI Mobile Communications Co., Ltd. / C731
Port / Connector(s)	: DC Input Port / Ear Phone Port

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003. (See test report if any modifications were made for compliance)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862.

Report prepared by
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ATTACHMENT: TEST SETUP PHOTOGRAPHS

1. GENERAL INFORMATION

1.1 Product Description

The **CASIO HITACHI Mobile Communications Co., Ltd. C731, Dual-Band CDMA/EV-DO Phone with Bluetooth.**

Its basic purpose is used for communications. It transmits from CDMA 835 (824.70 MHz to 848.31 MHz), PCS 1 900 (1851.25 MHz to 1908.75 MHz), Bluetooth (2 402 MHz to 2 480 MHz) and receives from CDMA 835 (869.70 MHz to 893.31 MHz), PCS 1 900 (1931.25 MHz to 1988.75 MHz), Bluetooth (2 402 MHz to 2 480 MHz).

Model	C731
FCC ID	TYKNX9270
E.U.T type	Dual-Band CDMA/EV-DO Phone with Bluetooth
TX frequency	824.70 MHz to 848.31 MHz (CDMA 835) 1851.25 MHz to 1908.75 MHz (PCS 1 900) 2 402 MHz to 2 480 MHz (Bluetooth)
RX frequency	869.70 MHz to 893.31 MHz (CDMA 835) 1931.25 MHz to 1988.75 MHz (PCS 1 900) 2 402 MHz to 2 480 MHz (Bluetooth)
Channel	Middle: 383 (CDMA 835) Middle: 600 (PCS 1 900)

1.2 Related Submittal(s) / Grant(s)

Original submittal only.

1.3 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device type	Manufacturer	Model number/ Part number	FCC ID / DoC	Connected to
Dual-Band CDMA /EV-DO Phone with Bluetooth	CASIO HITACHI	C731	TYKNX9270	Notebook PC
Travel Adaptor	-	CNR731	-	EUT
Notebook PC	TOSHIBA	PSMA2K-01D002	DoC	E.U.T, TA
Notebook PC adaptor	DELTA	SADP-65KB B	-	Notebook PC
Ear phone	-	-	-	E.U.T
Mouse	MICROSOFT	Intellimouse optical USB and PS/2 compatible	DoC	Notebook PC
STD Battery	TOCAD	BTR731B	-	-
EXT Battery	TOCAD	BTE731B	-	-

1.4 Cable Description

Product name	Port	Power cord shielded (Y/N)	I/O cable shielded (Y/N)	Length (M)
Dual-Band CDMA /EV-DO Phone with Bluetooth	DC in	N	-	(P)1.6
	Ear jack	-	Y	(D)1.65
	USB data	Y	N	(D)0.8
Notebook PC	USB (Mouse)	-	Y	(D)1.8

* The marked "(D)" means the Data Cable and "(P)" means the Power Cable.

1.5 Noise Suppression Parts on Cable. (I/O Cable)

Product name	Port	Ferrite bead (Y/N)	Location	Metal hood (Y/N)	Location
Dual-Band CDMA /EV-DO Phone with Bluetooth	DC in	N	-	Y	E.U.T end
	Ear jack	N	-	N	E.U.T end
	USB data	N	-	Y	Both end
Notebook PC	USB (Mouse)	N	-	Y	Notebook PC end

1.6 Test methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4/2003. Radiated testing was performed at an antenna to E.U.T distance of 3 m

1.7 Test facility

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-ri, Hobup-myun, Icheon-si, Kyoungki-do, 467-701, Korea. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the commission and accepted dated June 10, 2009 (Registration Number: 90661)

1.8 Frequency range of radiated measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

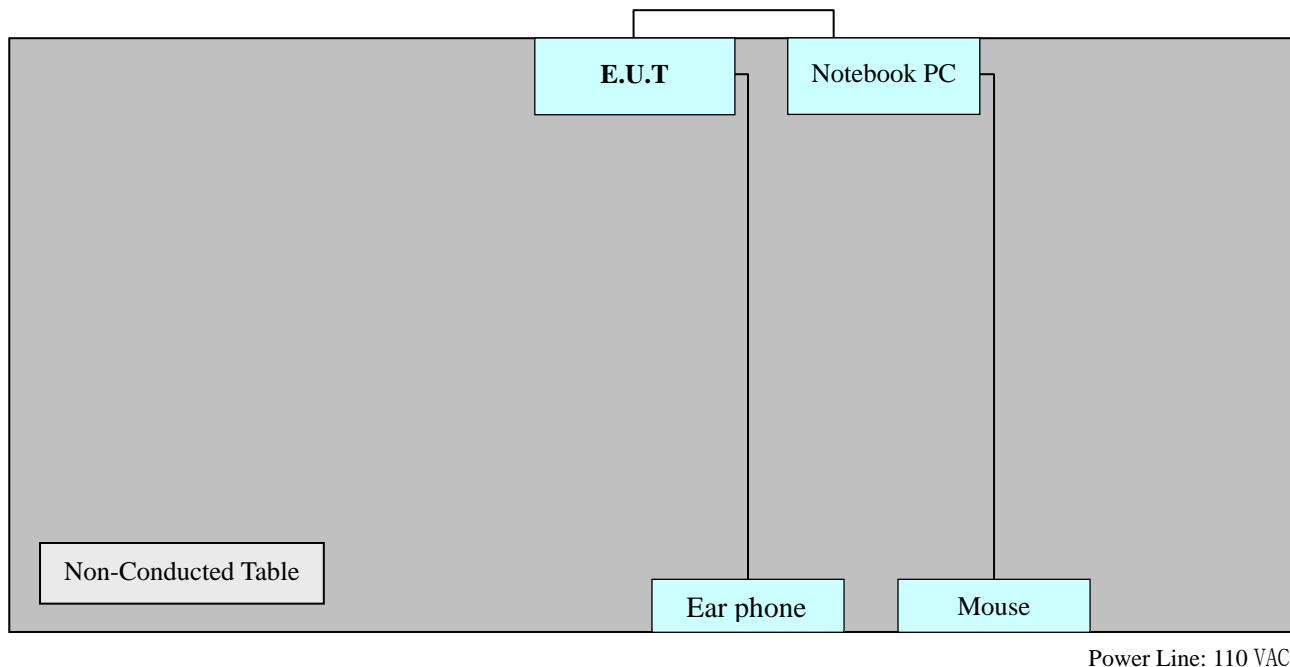
2. SYSTEM TEST CONFIGURATION

2.1 Configuration of test system

Power Line Conducted test : EUT was connected to LISN, all other supporting equipment were connected to another LISN. Preliminary Power Line Conducted Emission tests were performed by using the procedure in ANSI C63.4/2003 7.2.3 to determine the worst operating conditions.

Radiated Emission test : Preliminary Radiated Emission tests were performed by using the procedure in ANSI C63.4/2003 8.3.1.1 to determine the worst operating condition. Final Radiated Emission tests were performed at 3 m open area test site.

[Configuration of tested system]



3. PRELIMINARY TEST

3.1 Conducted Emission Test

During preliminary tests, the following operating mode was investigated:

Operation mode	The worst operating condition
CDMA Idle (835, 1900)	
Camera	
Bluetooth	
Data Communication	<input type="radio"/>

3. 2 Radiated Emission Test

During preliminary test, the following operation mode was investigated.

Operation mode	The worst operating condition
CDMA Idle (835, 1900)	
Camera	
Bluetooth	
Data Communication	<input type="radio"/>

4. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission Test

4.1.1 For Standard Battery

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

Limit apply to	: CISPR 22 Class B
Result	: Passed by 10.4 dB
Operating condition	: Data communication mode
Battery	: Standard battery (BTR731B)
Detector	: Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)
Temperature	: 23.2 °C
Humidity level	: 43.3 %
Test date	: June 19, 2009

Power Line Conducted Emissions			CISPR 22 Class B		
Frequency (MHz)	Amplitude (dB μ V)	Conductor	Result	Limit (dB μ V)	Margin (dB)
0.2026	49.9	HOT	Quasi-Peak	64.0	13.6
0.2001	40.8	HOT	Average	54.0	12.8
0.2001	53.2	NEUTRAL	Quasi-Peak	64.0	10.4
0.2026	39.7	NEUTRAL	Average	54.0	13.8

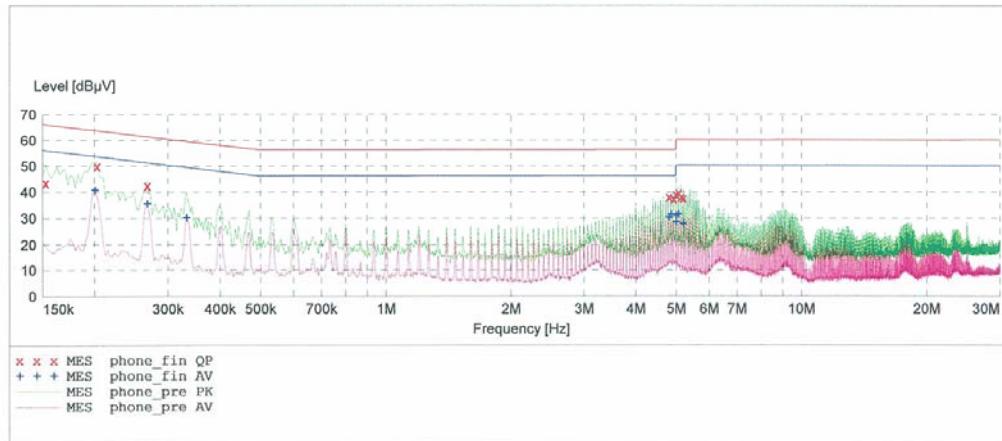
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EMC TEST LAB.

EUT: C731 (STD Bat_BTR731B)
Manufacturer: CASIO HITACHI Mobile Communications Co., Ltd.
Operating Condition: Data communication mode
Test Site: SHIELD ROOM
Operator: YH-LEE
Test Specification: CISPR 22 CLASS B
Comment: H

SCAN TABLE: "CISPR 22 Voltage"

CISPR 22 Voltage						
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "phone_fin QP"

6/19/2009 9:56AM	Frequency	Level	Transd	Limit	Margin	Line	PE
	MHz	dB μ V	dB	dB μ V	dB		
	0.152600	43.50	10.1	66	22.3	---	---
	0.202600	49.90	10.1	64	13.6	---	---
	0.267600	42.40	10.1	61	18.8	---	---
	4.800000	38.00	10.7	56	18.0	---	---
	4.932000	37.30	10.7	56	18.7	---	---
	5.000000	39.00	10.7	56	17.0	---	---
	5.068000	39.60	10.7	60	20.4	---	---
	5.136000	38.10	10.7	60	21.9	---	---
	5.200000	37.60	10.7	60	22.4	---	---

MEASUREMENT RESULT: "phone_fin AV"

6/19/2009 9:56AM	Frequency	Level	Transd	Limit	Margin	Line	PE
	MHz	dB μ V	dB	dB μ V	dB		
	0.200100	40.80	10.1	54	12.8	---	---
	0.267600	35.50	10.1	51	15.6	---	---

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MEASUREMENT RESULT: "phone_fin AV"

(continued)

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line dB	PE
0.332600	30.30	10.1	49	19.1	---	---
4.800000	30.50	10.7	46	15.5	---	---
4.868000	31.50	10.7	46	14.5	---	---
5.000000	31.10	10.7	46	14.9	---	---
5.000000	28.50	10.7	46	17.5	---	---
5.068000	31.50	10.7	50	18.5	---	---
5.200000	27.90	10.7	50	22.1	---	---

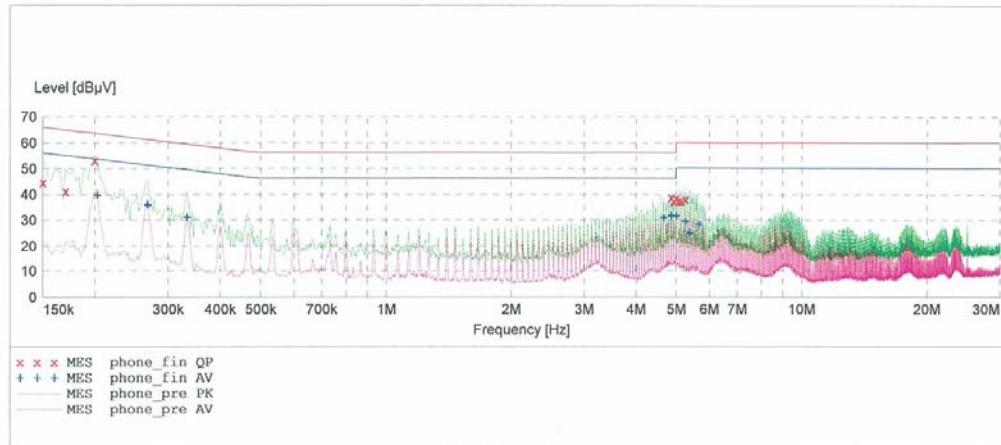
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EMC TEST LAB.

EUT: C731(STD Bat_BTR731B)
Manufacturer: CASIO HITACHI Mobile Communications Co., Ltd.
Operating Condition: Data communication mode
Test Site: SHIELD ROOM
Operator: YH-LEE
Test Specification: CISPR 22 CLASS B
Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage				
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer	
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				



MEASUREMENT RESULT: "phone_fin_QP"

6/19/2009 9:52AM	Frequency	Level	Transd	Limit	Margin	Line	PE
	MHz	dB μ V	dB	dB μ V	dB		
	0.150100	44.60	10.1	66	21.4	---	---
	0.170100	41.20	10.1	65	23.8	---	---
	0.200100	53.20	10.1	64	10.4	---	---
	4.860000	38.80	10.7	56	17.2	---	---
	4.928000	37.30	10.7	56	18.7	---	---
	4.992000	38.50	10.7	56	17.5	---	---
	5.060000	37.50	10.7	60	22.5	---	---
	5.128000	37.40	10.7	60	22.6	---	---
	5.260000	38.20	10.7	60	21.8	---	---

MEASUREMENT RESULT: "phone_fin_AV"

6/19/2009 9:52AM	Frequency	Level	Transd	Limit	Margin	Line	PE
	MHz	dB μ V	dB	dB μ V	dB		
	0.202600	39.70	10.1	54	13.8	---	---
	0.267600	35.90	10.1	51	15.3	---	---

MEASUREMENT RESULT: "phone_fin AV"

(continued)

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line dB	PE
0.332600	31.10	10.1	49	18.3	---	---
4.660000	30.90	10.6	46	15.1	---	---
4.860000	31.70	10.7	46	14.3	---	---
4.992000	31.60	10.7	46	14.4	---	---
5.260000	29.50	10.7	50	20.5	---	---
5.392000	25.10	10.7	50	24.9	---	---
5.660000	28.30	10.8	50	21.7	---	---

4.1.2 For Extended Battery

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

Limit apply to	: CISPR 22 Class B
Result	: Passed by 13.3 dB
Operating condition	: Data communication mode
Battery	: Extended battery (BTE731B)
Detector	: Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)
Temperature	: 23.2 °C
Humidity level	: 43.3 %
Test date	: June 19, 2009

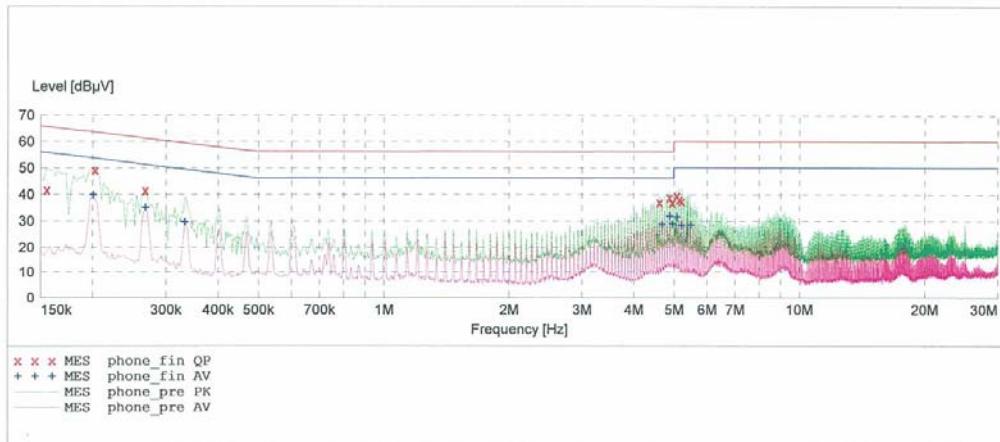
Power Line Conducted Emissions			CISPR 22 Class B		
Frequency (MHz)	Amplitude (dB μ V)	Conductor	Result	Limit (dB μ V)	Margin (dB)
0.2026	49.2	HOT	Quasi-Peak	64.0	14.3
0.2001	39.9	HOT	Average	54.0	13.7
0.2001	50.3	NEUTRAL	Quasi-Peak	64.0	13.3
0.2001	39.4	NEUTRAL	Average	54.0	14.2

HCT**EMC TEST LAB.**

EUT: C731 (EXT Bat BTE731B)
Manufacturer: CASIO HITACHI Mobile Communications Co., Ltd.
Operating Condition: Data communication mode
Test Site: SHIELD ROOM
Operator: YH-LEE
Test Specification: CISPR 22 CLASS B
Comment: H

SCAN TABLE: "CISPR 22 Voltage"

CISPR 22 Voltage						
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			

**MEASUREMENT RESULT: "phone_fin_QP"**

6/19/2009 10:02AM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.155100	41.80	10.1	66	24.0	---	---
0.202600	49.20	10.1	64	14.3	---	---
0.267600	41.50	10.1	61	19.7	---	---
4.608000	37.10	10.6	56	18.9	---	---
4.876000	38.90	10.7	56	17.1	---	---
4.944000	36.80	10.7	56	19.2	---	---
5.076000	39.60	10.7	60	20.4	---	---
5.144000	38.20	10.7	60	21.8	---	---
5.208000	37.50	10.7	60	22.5	---	---

MEASUREMENT RESULT: "phone_fin_AV"

6/19/2009 10:02AM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.200100	39.90	10.1	54	13.7	---	---
0.267600	35.10	10.1	51	16.1	---	---

MEASUREMENT RESULT: "phone_fin AV"

(continued)

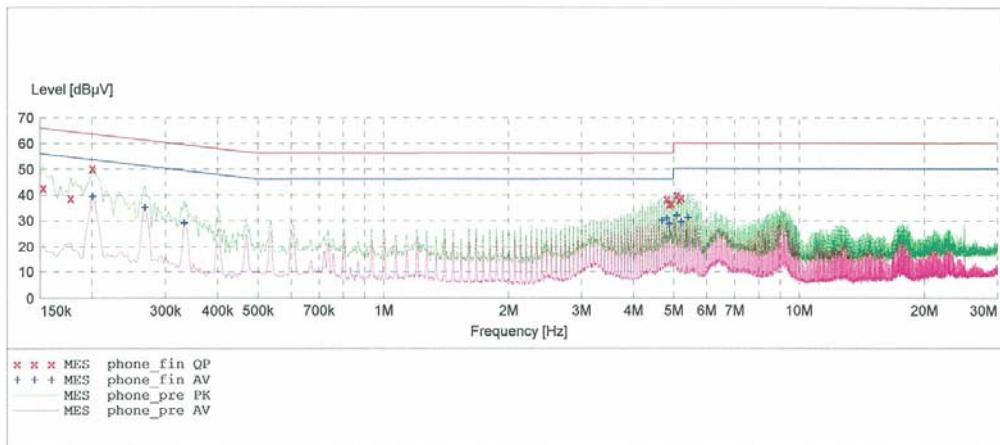
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.332600	29.60	10.1	49	19.8	---	---
4.672000	28.80	10.6	46	17.2	---	---
4.876000	31.80	10.7	46	14.2	---	---
4.944000	29.00	10.7	46	17.0	---	---
5.076000	31.50	10.7	50	18.5	---	---
5.208000	28.30	10.7	50	21.7	---	---
5.476000	28.50	10.7	50	21.5	---	---

HCT**EMC TEST LAB.**

EUT: C731(EXT Bat_BTE731B)
Manufacturer: CASIO HITACHI Mobile Communications Co., Ltd.
Operating Condition: Data communication mode
Test Site: SHIELD ROOM
Operator: YH-LEE
Test Specification: CISPR 22 CLASS B
Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Description:		CISPR 22 Voltage					
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None	Average
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None	Average
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None	Average

**MEASUREMENT RESULT: "phone_fin QP"**

6/19/2009 10:05AM	Frequency	Level	Transd	Limit	Margin	Line	PE
	MHz	dB μ V	dB	dB μ V	dB		
	0.152600	42.70	10.1	66	23.2	---	---
	0.177600	38.80	10.1	65	25.8	---	---
	0.200100	50.30	10.1	64	13.3	---	---
	4.812000	38.30	10.7	56	17.7	---	---
	4.876000	36.30	10.7	56	19.7	---	---
	4.944000	36.60	10.7	56	19.4	---	---
	5.080000	39.90	10.7	60	20.1	---	---
	5.148000	38.00	10.7	60	22.0	---	---
	5.212000	38.90	10.7	60	21.1	---	---

MEASUREMENT RESULT: "phone_fin AV"

6/19/2009 10:05AM	Frequency	Level	Transd	Limit	Margin	Line	PE
	MHz	dB μ V	dB	dB μ V	dB		
	0.200100	39.40	10.1	54	14.2	---	---
	0.267600	35.10	10.1	51	16.1	---	---

MEASUREMENT RESULT: "phone_fin AV"

(continued)

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.332600	29.10	10.1	49	20.3	---	---
4.680000	30.00	10.6	46	16.0	---	---
4.812000	31.00	10.7	46	15.0	---	---
4.876000	28.80	10.7	46	17.2	---	---
5.080000	32.00	10.7	50	18.0	---	---
5.212000	29.40	10.7	50	20.6	---	---
5.416000	31.20	10.7	50	18.8	---	---

4.2 Radiated Emission test

4.2.1 For Standard Battery

The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

Limit apply to	: FCC PART 15 Subpart B
Result	: Passed by 9.9 dB
Operating condition	: Data communication mode
Battery	: Standard battery (STR731B)
Detector	: Quasi-Peak (6 dB Bandwidth: 120 kHz)
Temperature	: 26.2 °C
Humidity level	: 43.3 %
Test date	: June 23, 2009

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
30.2	18.2	11.2	0.7	V	30.1	40.0	9.9
288.0	20.6	12.7	1.8	H	35.1	46.0	10.9
480.0	13.4	17.0	2.4	V	32.8	46.0	13.2
480.0	14.2	17.0	2.4	H	33.6	46.0	12.4
601.4	8.0	19.6	2.7	H	30.3	46.0	15.7
601.4	12.3	19.6	2.7	V	34.6	46.0	11.4

Note)

For measurement over 1 GHz, noise level was more than 10 dB below the limit.

4.2.2 For Extended Battery

The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

Limit apply to	: FCC PART 15 Subpart B
Result	: Passed by 10.0 dB
Operating condition	: Data communication mode
Battery	: Extended battery (BTE731B)
Detector	: Quasi-Peak (6 dB Bandwidth: 120 kHz)
Temperature	: 26.2 °C
Humidity level	: 43.3 %
Test date	: June 23, 2009

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
30.2	18.1	11.2	0.7	V	30.0	40.0	10.0
288.0	20.8	12.7	1.8	H	35.3	46.0	10.7
480.0	13.5	17.0	2.4	V	32.9	46.0	13.1
480.0	14.1	17.0	2.4	H	33.5	46.0	12.5
601.4	8.0	19.6	2.7	H	30.3	46.0	15.7
601.4	12.3	19.6	2.7	V	34.6	46.0	11.4

Note)

For measurement over 1 GHz, noise level was more than 10 dB below the limit.

5. FIELD STRENGTH CALCULATION

The field strength is calculated by adding the antenna factor and cable factor.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF$$

Where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

Assume a receiver reading of 21.5 dB μ V is obtained. The antenna factor of 7.4 dB/m and a cable factor of 1.1 dB are added. The 30 dB μ V/m value is mathematically converted to its corresponding level in μ V/m.

$$FS = 21.5 + 7.4 + 1.1 = 30 \text{ dB}\mu\text{V/m}$$

[Radiated Emission limits]

Frequency of emission (MHz)	Field strength	
	μ V/m	dB μ V/m
30 to 88	100	40.0
88 to 216	150	43.5
216 to 960	200	46.0
Above 960	500	54.0

6. SYSTEM MEASUREMENT UNCERTAINTY

For a 95 % confidence level, the measurement uncertainties for defined system.

6.1 Emissions test

- Radiated Emissions tests : ± 5.6 dB ($k = 2$)
(30 MHz ~ 1 GHz)

- Conducted Emissions tests : ± 3.7 dB ($k = 2$)
(150 kHz ~ 30 MHz)

7. TEST EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Model number</u>	<u>Next CAL date</u>
EMI Test Receiver	Rohde & Schwarz	ESI40	2009.10.31
EMI Test Receiver	Rohde & Schwarz	ESCI	2010.06.02
LISN	Rohde & Schwarz	ESH2-Z5	2010.04.10
LISN	Rohde & Schwarz	ESH3-Z5	2010.06.13
LISN	EMCO	3816/2SH	2010.06.09
Attenuator	Rohde & Schwarz	ESH3-Z2	2009.10.30
Trilog Antenna	Schwarzbeck	VULB9160	2010.12.18
Communication Antenna	TDK	LPDA-0802	-
Antenna Position Tower	HD	240/520/00	-
Base Station	Rohde & Schwarz	CMU 200	2010.02.17
Horn Antenna	Schwarzbeck	BBHA 9120D	2010.03.26
RF-Amplifier	MITEQ	AMF-6D-00101800-35.20P.PS	2010.04.25
Bluetooth Base Station	TESCOM	TC-3000A	2010.01.09

8. CONCLUSION

The data collected shows that the **CASIO HITACHI Mobile Communications Co., Ltd.**

Model: C731, Dual-Band CDMA/EV-DO Phone with Bluetooth. FCC ID: TYKNX9270
complies with §15.107 and §15.109 of the FCC rules.