



HCT CO., LTD.

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EMI CERTIFICATION REPORT

Applicant:

LG Electronics MobileComm U.S.A., Inc.
10101 Old Grove Road, San Diego, CA 92131

Date of Issue: May 17, 2012

Test Report No.: HCTE1205FE06-1

Test Site: HCT CO., LTD.
HCT FRN: 0005-8664-21

FCC ID:

ZNFVS930

Rule Part(s) / Standard(s) : FCC PART 15 Subpart B Class B
Equipment Type : Cellular/PCS CDMA/EVDO/GSM/GPRS/EDGE, PCS WCDMA/
HSPA and AWS LTE Phone with Bluetooth & WLAN & NFC
Model Name : VS930
Additional Model Name : LG-VS930
Port / Connector(s) : USB Port / Headset 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 subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

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This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd.

REVISION HISTORY

Report NO.	Date	Description
HCTE1205FE06	May 03, 2012	First Approval Report
HCTE1205FE06-1	May 17, 2012	Change peripheral (Notebook, Printer): Router has been changed to printer.

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ATTACHMENT: TEST SETUP PHOTOGRAPHS

1. GENERAL INFORMATION

1.1 Product Description

Equipment Under Test is **Cellular/PCS CDMA/EVDO/GSM/GPRS/EDGE, PCS WCDMA/HSPA and AWS LTE Phone with Bluetooth & WLAN & NFC, Model: VS930** manufactured by **LG Electronics MobileComm U.S.A., Inc.** Its basic purpose is used for communications.

Model	VS930
Additional Model Name	LG-VS930
FCC ID	ZNFVS930
E.U.T Type	Cellular/PCS CDMA/EVDO/GSM/GPRS/EDGE, PCS WCDMA/HSPA and AWS LTE Phone with Bluetooth & WLAN & NFC
TX Frequency	824.20 MHz to 848.80 MHz (GSM 850) 1 850.20 MHz to 1 909.80 MHz (GSM 1 900) 824.70 MHz to 848.31 MHz (CDMA 835) 1 851.25 MHz to 1 908.75 MHz (CDMA 1 900) 1 852.4 MHz to 1 907.6 MHz (WCDMA 1 900) 777 MHz to 787 MHz (LTE B13)
RX Frequency	869.20 MHz to 893.80 MHz (GSM 850) 1 930.20 MHz to 1 989.80 MHz (GSM 1 900) 869.70 MHz to 893.31 MHz (CDMA 835) 1 931.25 MHz to 1 988.75 MHz (CDMA 1 900) 1 932.4 MHz to 1 987.6 MHz (WCDMA 1 900) 746 MHz to 756 MHz (LTE B13)

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 Name	FCC ID / DoC	Connected To
E.U.T	LG	VS930	ZNFVS930	Notebook PC
Notebook PC	H.P	ProBook 6560b	DoC	E.U.T Notebook PC adaptor
Notebook PC adaptor	CHICONY POWER TECHNOLOGY	Series PPP012H-S	-	Notebook PC
Mouse	PRIMAX ELECTRONICS	MOARUO	DoC	Notebook PC
SD Card	SanDisk	8GB	-	E.U.T
USB cable	-	-	-	E.U.T Notebook PC
Headset	-	-	-	E.U.T
Printer	H.P	C6280	DoC	Notebook PC Printer adaptor
Printer adaptor	Dongguang Lite Power	0957-2271	-	Printer
RJ45 cable	-	-	-	Printer Notebook PC

1.4 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
E.U.T	Micro USB	Y	Y	(P,D)1.2
	Headset jack	-	N	(D)1.1
Notebook PC	RJ 45	-	N	(D)1.5
	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
E.U.T	Micro USB	N	N/A	Y	Both End
	Headset jack	N	N/A	Y	E.U.T End
Notebook PC	RJ 45	N	N/A	N	Both End
	USB (Mouse)	-	-	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 3 m semi anechoic chamber used to collect the test data is located at the 105-1, Jangam-Ri, Majang-Myeon, Icheon-Si, Kyoungki-Do, Republic of Korea. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4.

Detailed description of test facilities was submitted to the Commission and accepted dated Mar 02, 2011 (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

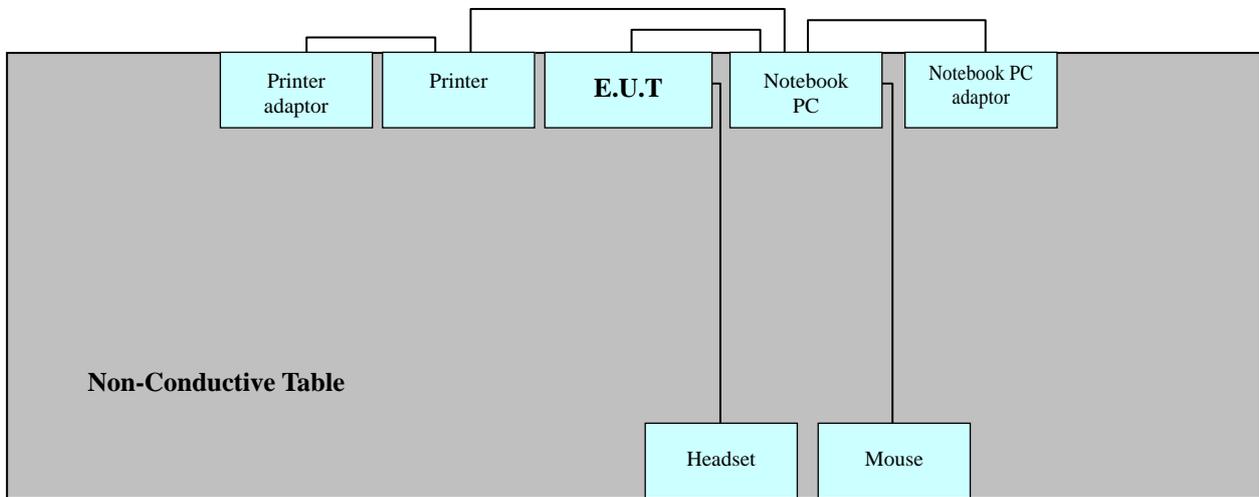
2. SYSTEM TEST CONFIGURATION

2.1 Configuration of Test System

Power Line Conducted test : E.U.T was connected to LISN via Notebook PC adaptor and Base Station. 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 semi-anechoic chamber.

[Configuration of Tested System]



Power Line: 110 VAC

3. PRELIMINARY TEST

3.1 Conducted Emission Test

■ It was tested Data Communication mode, after connecting all peripheral devices.

Operation Mode: Data communication mode

Test Configuration Normal cover
 Wireless cover

3. 2 Radiated Emission Test

■ It was tested Data Communication mode, after connecting all peripheral devices.

Operation Mode: Data communication mode

Test Configuration Normal cover
 Wireless cover

4. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission Test

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

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)

Operation Mode : Data communication mode

Temperature : 22.3 °C

Humidity Level : 47.0 %

Test Date : May 16, 2012

[Wireless Cover]

Frequency	Transd	Conductor (H/N)	Quasi-Peak			Average		
			Limit	Measurement Level	Result Level	Limit	Measurement Level	Result Level
(MHz)	(dB)		(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)
0.230	10.1	N	62	28.3	38.4	52	-	-
0.223	10.1	H	63	26.0	36.1	53	-	-
0.490	10.2	N	56	24.4	34.6	46	-	-
0.588	10.2	N	56	23.7	33.9	46	-	-
1.704	10.0	H	56	17.1	27.1	46	-	-
24.608	10.1	H	60	21.8	31.9	50	-	-

[Standard Cover]

Frequency (MHz)	Transd (dB)	Conductor (H/N)	Quasi-Peak			Average		
			Limit	Measurement Level	Result Level	Limit	Measurement Level	Result Level
			(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)
0.222	10.1	N	63	25.8	35.9	53	-	-
0.230	10.7	N	62	25.0	35.7	52	-	-
0.228	10.1	H	63	28.9	39.0	53	15.90	26.00
0.462	10.1	H	57	23.5	33.6	47	-	-
0.580	10.1	H	56	22.9	33.0	46	-	-
24.316	11.7	N	60	20.7	32.4	50	-	-

※ **NOTE:** Refer to page 12 to page 19 for details.

1. The worst-case emissions are reported.
2. Line H = Hot, Line N = Neutral

[Wireless Cover]

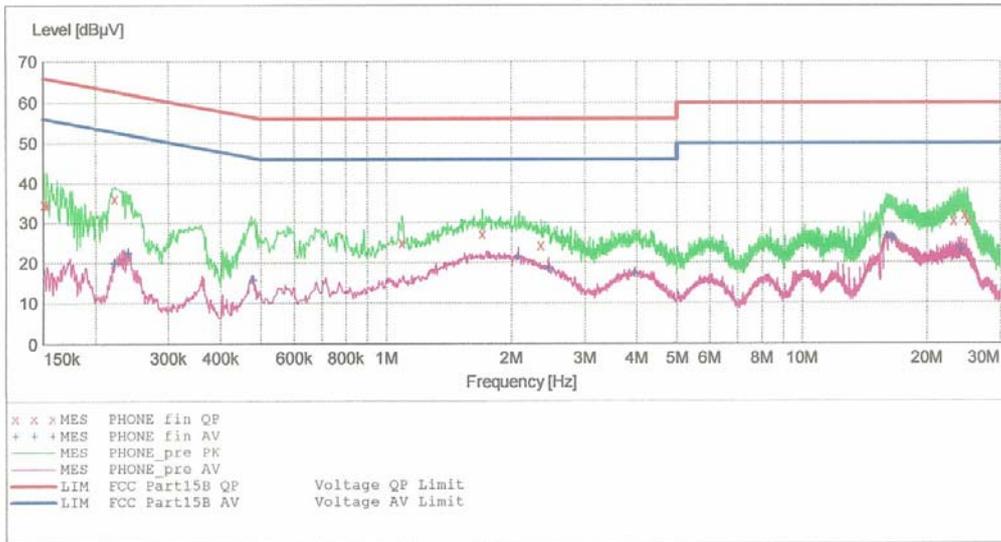
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EMC

EUT: VS930
 Manufacturer: LG
 Operating Condition: DATA MODE
 Test Site: SHIELD ROOM
 Operator: JH CHOI
 Test Specification: FCC PART15 CLASS B
 Comment: H

SCAN TABLE: "FCC PART 15 B(H)"

Short Description:			FCC PART 15 CLASS B			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	1.0 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"

5/16/2012 10:38PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
0.151010	34.80	10.0	66	31.1	---	---
0.153010	34.70	10.0	66	31.2	---	---
0.223010	36.10	10.1	63	26.6	---	---
1.092000	24.90	10.2	56	31.1	---	---
1.704000	27.10	10.2	56	28.9	---	---
2.360000	24.40	10.2	56	31.6	---	---
23.204000	30.40	11.8	60	29.6	---	---
24.608000	31.90	11.9	60	28.1	---	---
24.992000	30.40	11.9	60	29.6	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

5/16/2012 10:38PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.223010	19.80	10.1	53	32.9	---	---
0.240010	22.30	10.1	52	29.8	---	---
0.480010	15.60	10.1	46	30.7	---	---
2.080000	21.40	10.2	46	24.6	---	---
2.456000	18.50	10.3	46	27.5	---	---
3.960000	17.20	10.4	46	28.8	---	---
16.048000	26.50	11.2	50	23.5	---	---
16.556000	26.00	11.3	50	24.0	---	---
24.120000	23.30	11.8	50	26.7	---	---

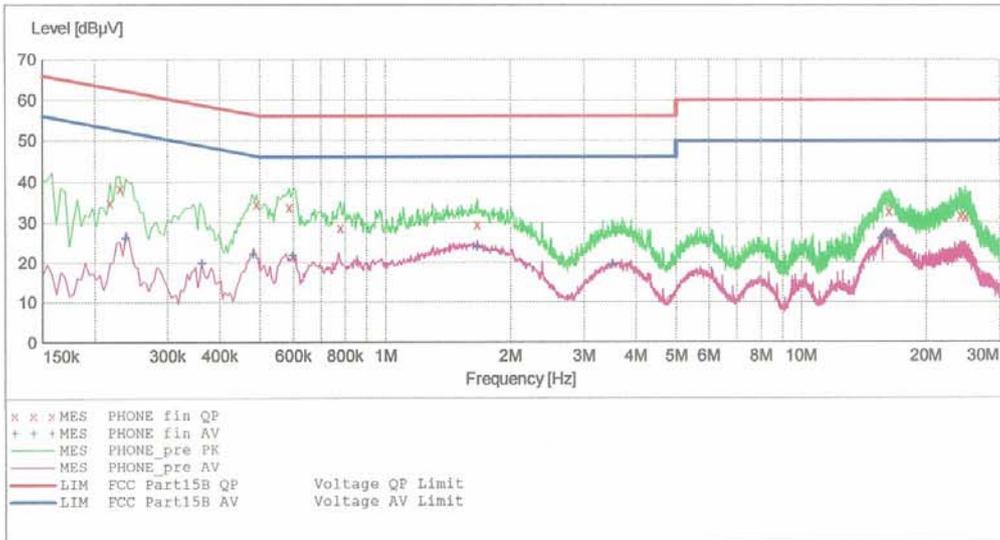
HCT

EMC

EUT: VS930
 Manufacturer: LG
 Operating Condition: DATA MODE
 Test Site: SHIELD ROOM
 Operator: JH CHOI
 Test Specification: FCC PART15 CLASS B
 Comment: N

SCAN TABLE: "FCC PART 15 B(N)"

Short Description:			FCC PART 15 CLASS B			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	4.0 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"

5/16/2012 10:42PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.218010	35.00	10.1	63	27.9	---	---
0.230010	38.40	10.1	62	24.0	---	---
0.490010	34.60	10.0	56	21.6	---	---
0.588000	33.90	10.1	56	22.1	---	---
0.780000	28.80	10.1	56	27.2	---	---
1.664000	29.50	10.2	56	26.5	---	---
16.316000	32.70	11.2	60	27.3	---	---
24.200000	31.70	11.7	60	28.3	---	---
24.788000	31.30	11.7	60	28.7	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

5/16/2012 10:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.238010	26.10	10.1	52	26.1	---	---
0.362010	19.90	10.1	49	28.8	---	---
0.482010	22.00	10.0	46	24.3	---	---
0.600000	21.70	10.1	46	24.3	---	---
1.664000	23.90	10.2	46	22.1	---	---
3.520000	19.50	10.3	46	26.5	---	---
15.624000	26.00	11.1	50	24.0	---	---
16.028000	27.30	11.2	50	22.7	---	---
16.528000	26.60	11.2	50	23.4	---	---

[Standard Cover]

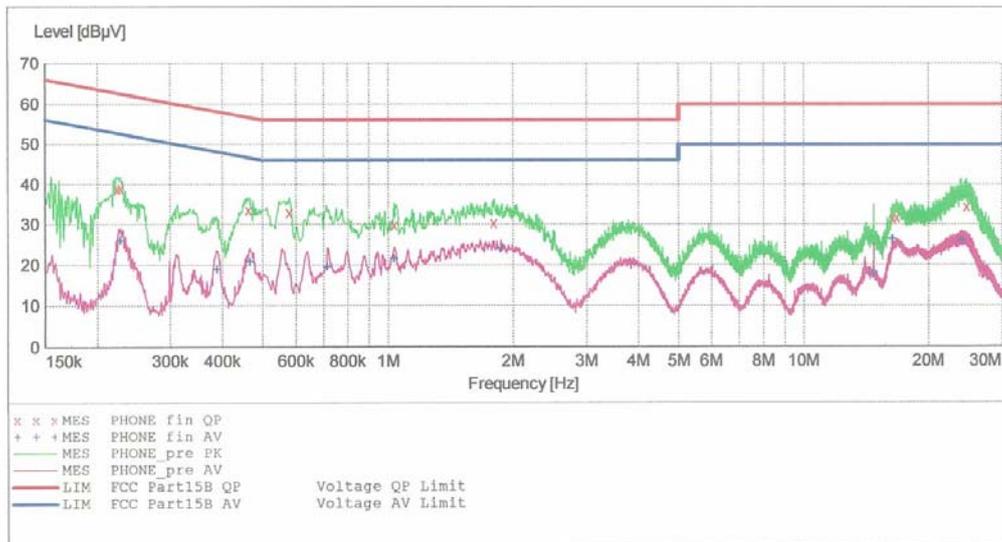
HCT

EMC

EUT: VS930
 Manufacturer: LG
 Operating Condition: DATA MODE
 Test Site: SHIELD ROOM
 Operator: JH CHOI
 Test Specification: FCC PART15 CLASS B
 Comment: H(STANDARD COVER)

SCAN TABLE: "FCC PART 15 B(H)"

Short Description:			FCC PART 15 CLASS B			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	1.0 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"

5/16/2012 11:21AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.224010	38.90	10.1	63	23.8	---	---
0.228010	39.00	10.1	63	23.5	---	---
0.462010	33.60	10.1	57	23.0	---	---
0.580000	33.00	10.1	56	23.0	---	---
1.036000	29.90	10.1	56	26.1	---	---
1.800000	30.40	10.2	56	25.6	---	---
16.376000	31.50	11.3	60	28.5	---	---
16.736000	31.70	11.3	60	28.3	---	---
24.680000	34.40	11.9	60	25.6	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

5/16/2012 11:21AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.228010	26.00	10.1	53	26.5	---	---
0.389010	18.90	10.1	48	29.2	---	---
0.466010	20.70	10.1	47	25.9	---	---
0.716000	19.50	10.1	46	26.5	---	---
1.036000	21.50	10.1	46	24.5	---	---
1.872000	23.90	10.2	46	22.1	---	---
14.760000	17.80	11.2	50	32.2	---	---
16.368000	26.30	11.3	50	23.7	---	---
23.984000	25.90	11.8	50	24.1	---	---

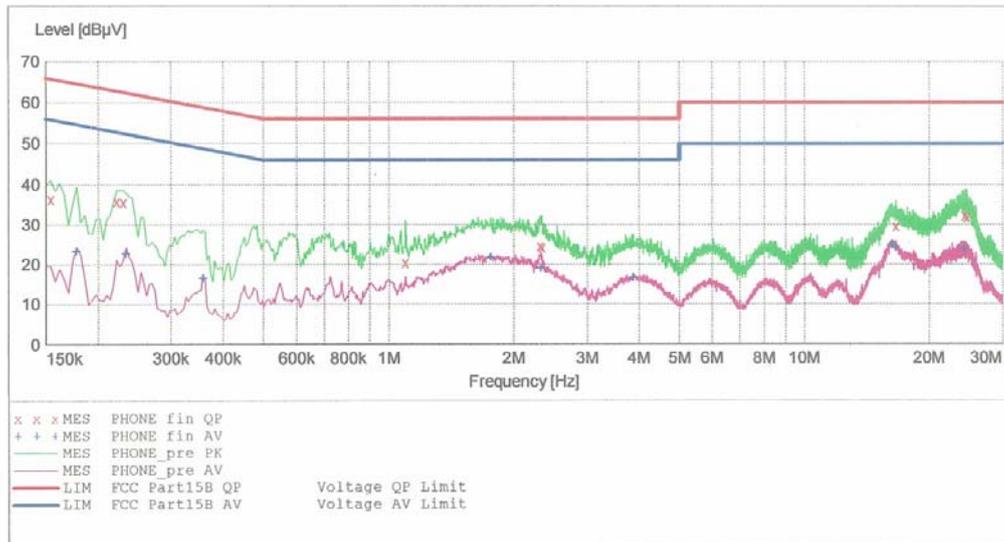
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EMC

EUT: VS930
 Manufacturer: LG
 Operating Condition: DATA MODE
 Test Site: SHIELD ROOM
 Operator: JH CHOI
 Test Specification: FCC PART15 CLASS B
 Comment: N(STANDARD COVER)

SCAN TABLE: "FCC PART 15 B(N)"

Short Description:			FCC PART 15 CLASS B			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	4.0 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"

5/16/2012 11:26AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.154010	36.40	10.0	66	29.4	---	---
0.222010	35.90	10.1	63	26.8	---	---
0.230010	35.70	10.1	62	26.7	---	---
1.100000	20.50	10.1	56	35.5	---	---
2.320000	24.60	10.2	56	31.4	---	---
2.336000	24.40	10.2	56	31.6	---	---
16.616000	29.70	11.2	60	30.3	---	---
24.316000	32.40	11.7	60	27.6	---	---
24.604000	31.90	11.7	60	28.1	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

5/16/2012 11:26AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.178010	23.40	10.1	55	31.2	---	---
0.234010	22.60	10.1	52	29.7	---	---
0.358010	16.50	10.1	49	32.3	---	---
1.764000	21.70	10.2	46	24.3	---	---
2.324000	19.10	10.2	46	26.9	---	---
3.872000	16.70	10.3	46	29.3	---	---
16.260000	25.10	11.2	50	24.9	---	---
16.612000	24.20	11.2	50	25.8	---	---
24.272000	23.90	11.7	50	26.1	---	---

4.2 Radiated Emission Test

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 Class B

-For measurement below 1 GHz

Detector : Quasi-Peak (6 dB Bandwidth: 120 kHz)

Operation Mode : Data communication mode

-For measurement above 1 GHz

Detector : Peak mode: Peak (RBW: 1 MHz / VBW: 1 MHz)

: Average mode: Peak (RBW: 1 MHz / VBW: 10 Hz)

Operation Mode : Data communication mode

Temperature : 24.2 °C

Humidity Level : 46.7 %

Test Date : May 16, 2012

[Wireless Cover]

Frequency (MHz)	Reading (dBUV)	Polarity (H/V)	Antenna Height (m)	Correction Factor		Limit (dBUV/m)	Level (dBUV/m)	Margin (dB)
				Antenna (dB/m)	Cable (dB)			
43.60	18.62	V	1.00	11.98	1.10	40.0	31.70	8.30
76.50	19.99	H	2.70	9.04	1.47	40.0	30.50	9.50
107.20	22.41	H	2.70	10.01	1.77	43.5	34.20	9.30
164.10	15.91	V	1.20	12.78	2.21	43.5	30.90	12.60
214.60	16.95	H	1.00	10.10	2.55	43.5	29.60	13.90
480.90	14.14	H	1.50	17.56	3.91	46.0	35.60	10.40

[Standard Cover]

Frequency (MHz)	Reading (dBuV)	Polarity (H/V)	Antenna Height (m)	Correction Factor		Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
				Antenna (dB/m)	Cable (dB)			
77.20	24.09	H	2.20	8.93	1.48	40.0	34.50	5.50
125.10	21.95	H	1.00	11.62	1.93	43.5	35.50	8.00
130.70	21.06	V	1.00	11.97	1.97	43.5	35.00	8.50
377.60	17.52	H	1.00	15.14	3.44	46.0	36.10	9.90
480.20	17.06	V	1.00	17.54	3.90	46.0	38.50	7.50
960.30	7.47	V	1.20	24.36	5.67	54.0	37.50	16.50

※ NOTE:

1. Measurement above 1 GHz was performed from 1 GHz to the 5th harmonic of highest fundamental frequency.
2. For measurement above 1 GHz, Emission noise was not founded over the ambient noise.

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. TEST EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next CAL Date</u>
<u>Conducted Emission</u>				
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	2013.05.02
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	2013.02.03
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	2013.02.09
<input checked="" type="checkbox"/> Attenuator	Rohde & Schwarz	ESH3-Z2	357.8810.352	2012.08.01
<u>Radiated Emission</u>				
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	2013.05.03
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU26	100241	2012.08.02
<input type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9160	3125	2013.05.03
<input checked="" type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9160	3301	2012.09.13
<input type="checkbox"/> Antenna master	INNCO Systems	MA4000-EP	MA4000/283	-
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	-
<input checked="" type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	-
<input type="checkbox"/> Antenna master controller	HD GmbH	HD100	100/637BJ:00	-
<input checked="" type="checkbox"/> Turn Table	HD GmbH	2090	9702/1224	-
<input checked="" type="checkbox"/> Power Amplifier	Rohde & Schwarz	SCU-18	10094	2012.09.19
<input type="checkbox"/> Communication Antenna	Schwarzbeck	USLP9142	9142-248	-
<input checked="" type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	937	2013.10.17

7. CONCLUSION

The data collected shows that the **Cellular/PCS CDMA/EVDO/GSM/GPRS/EDGE, PCS WCDMA/HSPA and AWS LTE Phone with Bluetooth & WLAN & NFC, Model: VS930, FCC ID: ZNFVS930** complies with §15.107 and §15.109 of the FCC rules.