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386-1, Ho-dong, Cheoin-gu, Yongin-si, Gyeonggi-do, 449-100, Korea
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EMC TEST REPORT For FCC



Test Report No. : CTK-2013-00672
Date of Issue : 2013-04-24
Kind of Product : Projection Keyboard
Basic Model/Type No. : Epic
Variant Model/Type No. : Epic Plus
Applicant : Celluon, Inc.
Applicant Address : Ace High-End Tower 1101 235-2, Guro-Dong, Guro-Gu, Seoul, Korea, 152-740
Manufacturer : Celluon, Inc.
Manufacturer Address : Ace High-End Tower 1101 235-2, Guro-Dong, Guro-Gu, Seoul, Korea, 152-740
Factory : 1. GEONAS CO., LTD.
2. Heilongjiang Celluon Electronic Product Developing Co., Ltd.
Factory Address : 1. 693-24 Geumjeong-Dong, Gunpo-si, Gyeonggi-Do, Korea
2. No.99, Bamiantong Street, Jiangnan Develop District, Dongan District, Mudanjiang City, Heilongjiang Province China
Contact Person : PARK CHUN BAE
Telephone : +82-2-6220-3886
Received Date : 2013-03-08
Test period : Start : 2013-03-15 End : 2013-03-25
Test Results : ☒ In Compliance ☐ Not in Compliance

The test results presented in this report relate only to the object tested.

Tested by

Lee Eun-Won
EMC Test Engineer
Date: 2013-04-24

Reviewed by

James Hong
EMC Technical Manager
Date: 2013-04-24



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REPORT REVISION HISTORY

Date	Revision	Page No
2013-04-24	Issued (CTK-2013-00672)	All

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1.0 General Product Description

No.	ITEM	APPLICATION
1	Kind of Product	Projection Keyboard
2	Basic Model/Type No.	Epic
3	Variant Model/Type No.	Epic Plus
4	Dimensions (mm)	70(W) x 20(L) x 35(H)
5	Mobility	☒ Table-top ☐ Floor-standing ☐ Built-in ☒ Portable
6	Maximum Clock Frequency	24 MHz
7	Electrical Ratings	Input: 5 Vdc
		Output: -
8	Test Voltage / Frequency	Voltage: 220 Vac (Mains of Notebook)
		Frequency: 60 Hz

1.1 Model Differences

Epic and Epic Plus are no technical difference from each model only except for model name at requests of a buyer.

1.2 Device Modifications

The following modifications were necessary for compliance:

Not applicable



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1.3 EUT Configuration(s)

See Appendix A for individual test set-up configuration(s). The following peripheral devices and/or interface cables were connected during the measurement:

☒ Peripheral Devices

Device	Model No.	Serial No.	Manufacturer
Notebook	NT-R470	ZMI593FSA00244Y	SAMSUNG
Adapter	AD-6019R	-	Hipro Electronics(Suzhou) Co., Ltd.

☒ Cable Description

No.	From		To		Type of Cable		
	Device	I/O Port	Device	I/O Port	Length (m)	Shielded or Unshielded	Ferrite Core [Y/N]
1	EUT	USB	Notebook	USB	1.2	Shielded	N
2	Notebook	DC In	Adapter	DC out	1.5	Unshielded	Y
3	Adapter	AC Power	AC Mains	-	1.8	Unshielded	N

1.4 Test Software

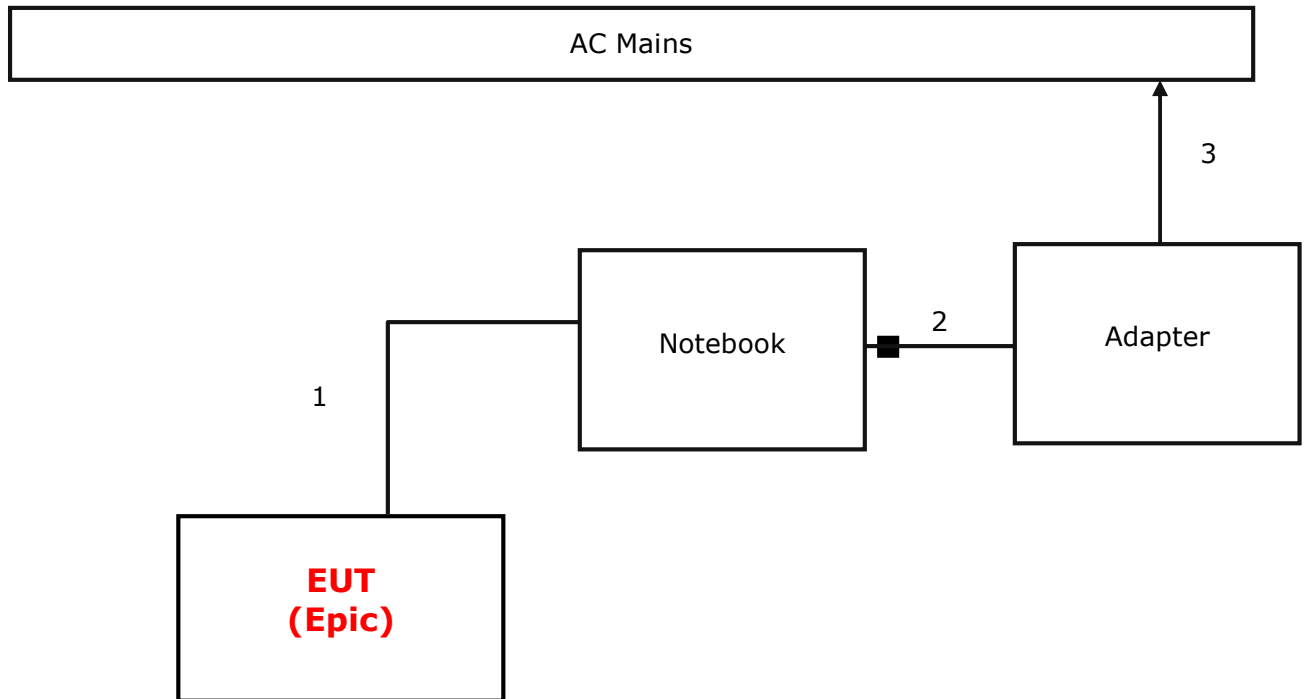
- ☐ EMC Test V 1.0
☐ Display Test Patterns – V1.5
☐ Ping.exe
☒ Not applicable

1.5 EUT Operating Mode(s)

Equipment under test was operated during the measurement under the following conditions:

☒ Charging mode

1.6 Configuration





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1.7 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

1.8 Test Facility

The measurement facility is located at 386-1, Ho-dong, Cheoin-gu, Yongin-si, Gyeonggi-do, 449-100, Korea. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.9 Measurement Procedure

Preliminary AC power line conducted emissions tests were performed shielded room. To find worst mode, several typical mode and typical cable position were tested. Final AC power line conducted emissions test was performed shielded room. (location is same as Preliminary test)
Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

Preliminary radiated emissions test were performed Semi-Anechoic Chamber or anechoic chamber (Distance of antenna and EUT was 3 m). To find worst mode, several typical mode and typical cable position were tested and peak level and frequency were recorded.

Final radiated emissions test was performed Semi-Anechoic Chamber.
Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

* Measurement procedures was In accordance with ANSI C63.4-2009 7.3.3, 7.3.4, 8.3.1.1, 8.3.1.2, 8.3.2.1, 8.3.2.2



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1.10 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3 m & 10 m SAC and Conducted Test Site to perform FCC Part 15/18 measurements	 805871
JAPAN	VCCI	3 m & 10 m SAC and Conducted Test Site	 C-986, T-1843, R-3627, G-387
KOREA	KCC	EMI (3 m & 10 m SAC and Conducted Test Site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and Interruptions)	 No. 51, KR0025

1.11 Measurement Uncertainty

Compliance of the product is based on the measured value.

However, the measurement uncertainty is included for information purposes.

The measurement uncertainties given below are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Measurement Type	Frequency Range	Expanded Uncertainty
Conducted Emission	150 kHz to 30 MHz	± 2.42 dB (C.L.: Approx. 95 %, $k=2$)
Radiated Emission	30 MHz to 1000 MHz	± 3.26 dB (C.L.: Approx. 95 %, $k=2$)



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2.0 EMC Test Regulations/Standards

The tests were performed according to following regulations:

Applied standard	Title	Applied	Test Result
FCC Part 15 Subpart B ☐ Class A ☒ Class B	Conducted Voltage Emissions	☒	☒ MET ☐ NOT MET
	Radiated Electric Field Emissions (Below 1 GHz)	☒	☒ MET ☐ NOT MET
	Radiated Electric Field Emissions (Above 1 GHz)	☐	☐ MET ☐ NOT MET
CISPR 22:2006 ☐ Class A ☐ Class B	Radiated Electric Field Emissions (Below 1 GHz)	☐	☐ MET ☐ NOT MET



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3.0 Results of Individual Test

3.1 Conducted Voltage Emissions of Mains ports

Test Date

2013-03-20

Test Location

Shielded Room

Test Equipment

Name of Equipment	Model No.	Manufacturer	Serial No.	Due Date	Applied
EMI Test Receiver	ESCI7	Rohde & Schwarz	100816	2013-12-14	☒
LISN	ENV216	Rohde & Schwarz	101235	2013-08-06	☒
LISN	ENV216	Rohde & Schwarz	101236	2013-08-06	☐
EMI Test Receiver	ESCI3	Rohde & Schwarz	100032	2014-02-04	☐
LISN	ENV216	Rohde & Schwarz	101151	2013-11-09	☐
LISN	ESH3-Z5	Rohde & Schwarz	100207	2013-11-09	☐

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Setting

IF Band Width: 9 kHz

Climate Condition

Temperature: $(21 \pm 1) ^\circ\text{C}$

Relative Humidity: $(42 \pm 1) \%$

Atmospheric Pressure: 99 kPa

Test Result

The requirements are: ☒ MET ☐ NOT MET

Frequency (MHz)	Measured Data (dB μ V)	Margin (dB)	Remark
13.438 5	42.8	7.2	Average



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Test Data

[Line: L1]

EMI Auto Test(2)

1 / 2

Test Report

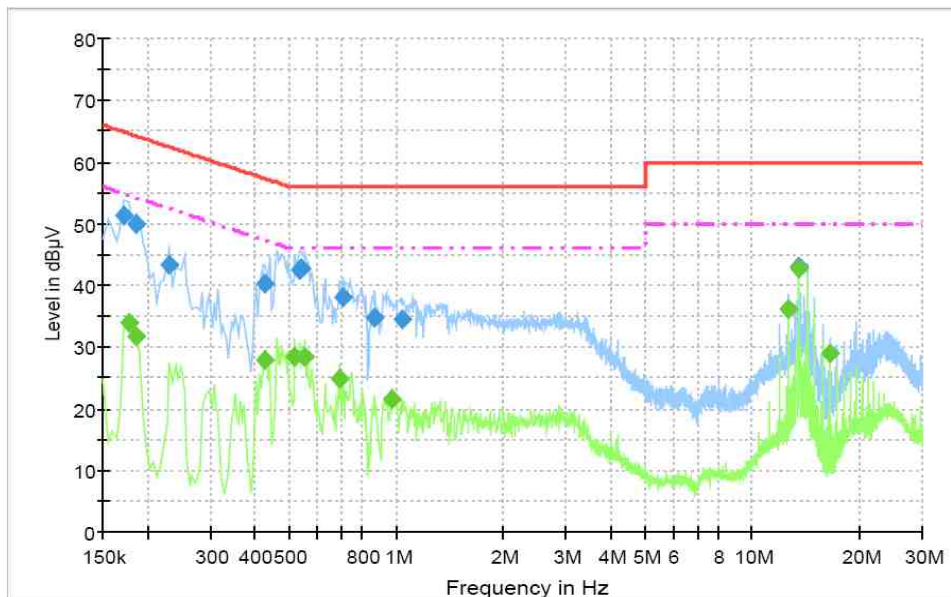
Common Information

Test Model Type:
Test Model Name: Epic
Manufacturer: Celluon
Operating Mode: Charing MODE_HOT (FCC)
Operator Name: EUN WON, LEE

Hardware Setup: EMI conducted Voltage with ENV216_FO(101235) - [EMI conducted]

Subrange 1
Frequency Range: 150 kHz - 30 MHz
Receiver: ESCI 7 [ESCI 7]
@ GPIB0 (ADR 20), SN 100816/007, FW 4.42
Signal Path: ESCI 7-ENV216 FO(101235)
FW 1.0
Correction Table: 3CE Cable Loss
LISN: ENV216 FO(101235)
Correction Table (Line 0): ENV216_FO_N(101235)
Correction Table (Line 1): ENV216_FO_L1(101235)

3CE_CISPR 22 Class B_L1



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4:54:39



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EMI Auto Test(2)

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Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.172500	51.4	1000.0	9.000	On	L1	10.1	13.4	64.8
0.186000	50.0	1000.0	9.000	On	L1	10.0	14.2	64.2
0.231000	43.2	1000.0	9.000	On	L1	9.9	19.2	62.4
0.429000	40.4	1000.0	9.000	On	L1	10.1	16.9	57.3
0.532500	42.5	1000.0	9.000	On	L1	10.1	13.5	56.0
0.541500	42.8	1000.0	9.000	On	L1	10.1	13.2	56.0
0.708000	38.0	1000.0	9.000	On	L1	10.0	18.0	56.0
0.870000	34.7	1000.0	9.000	On	L1	10.0	21.3	56.0
1.041000	34.5	1000.0	9.000	On	L1	9.9	21.5	56.0
13.438500	43.0	1000.0	9.000	On	L1	9.8	17.0	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.177000	33.9	1000.0	9.000	On	L1	10.1	20.8	54.6
0.186000	31.8	1000.0	9.000	On	L1	10.0	22.4	54.2
0.429000	27.9	1000.0	9.000	On	L1	10.1	19.4	47.3
0.519000	28.5	1000.0	9.000	On	L1	10.1	17.5	46.0
0.555000	28.5	1000.0	9.000	On	L1	10.1	17.5	46.0
0.690000	24.7	1000.0	9.000	On	L1	10.0	21.3	46.0
0.973500	21.6	1000.0	9.000	On	L1	9.9	24.4	46.0
12.673500	36.0	1000.0	9.000	On	L1	9.8	14.0	50.0
13.438500	42.8	1000.0	9.000	On	L1	9.8	7.2	50.0
16.512000	29.0	1000.0	9.000	On	L1	9.8	21.0	50.0

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[Line : Neutral]

EMI Auto Test(2)

1 / 2

Test Report

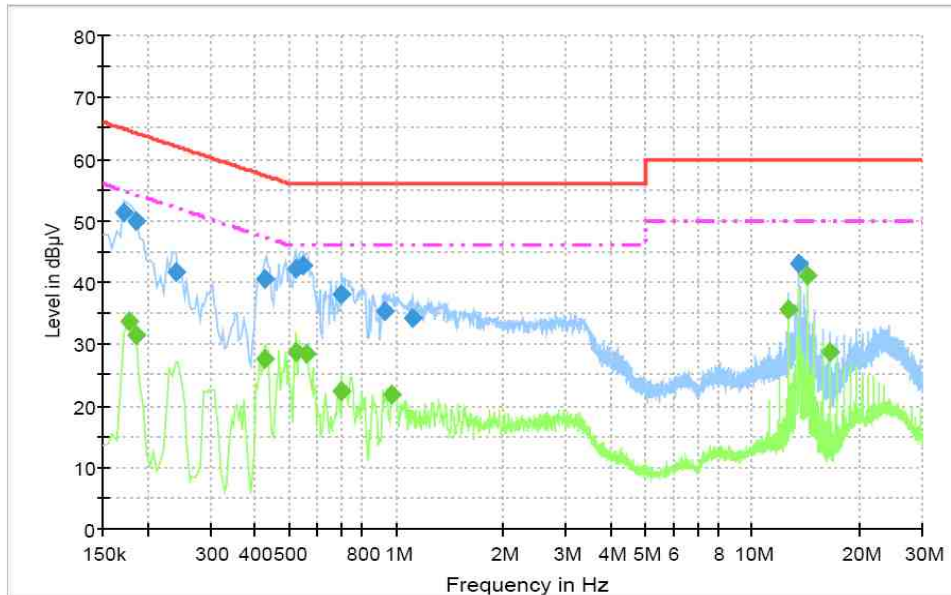
Common Information

Test Model Type:
Test Model Name: Epic
Manufacturer: Celluon
Operating Mode: Charing MODE_NEUTRAL (FCC)
Operator Name: EUN WON, LEE

Hardware Setup: EMI conducted Voltage with ENV216_FO(101235) - [EMI conducted]

Subrange 1
Frequency Range: 150 kHz - 30 MHz
Receiver: ESCI 7 [ESCI 7]
@ GPIB0 (ADR 20), SN 100816/007, FW 4.42
Signal Path: ESCI 7-ENV216 FO(101235)
FW 1.0
Correction Table: 3CE Cable Loss
LISN: ENV216 FO(101235)
Correction Table (Line 0): ENV216_FO_N(101235)
Correction Table (Line 1): ENV216_FO_L1(101235)

3CE_CISPR 22 Class B_N



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EMI Auto Test(2)

2 / 2

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.172500	51.3	1000.0	9.000	On	N	10.1	13.5	64.8
0.186000	49.9	1000.0	9.000	On	N	10.0	14.3	64.2
0.240000	41.7	1000.0	9.000	On	N	10.0	20.4	62.1
0.429000	40.6	1000.0	9.000	On	N	10.1	16.7	57.3
0.523500	42.3	1000.0	9.000	On	N	10.1	13.7	56.0
0.546000	42.8	1000.0	9.000	On	N	10.1	13.2	56.0
0.703500	38.0	1000.0	9.000	On	N	10.0	18.0	56.0
0.933000	35.4	1000.0	9.000	On	N	9.9	20.6	56.0
1.113000	34.1	1000.0	9.000	On	N	9.9	21.9	56.0
13.438500	43.1	1000.0	9.000	On	N	9.8	16.9	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.177000	33.7	1000.0	9.000	On	N	10.1	21.0	54.6
0.186000	31.4	1000.0	9.000	On	N	10.0	22.8	54.2
0.429000	27.6	1000.0	9.000	On	N	10.1	19.7	47.3
0.523500	28.8	1000.0	9.000	On	N	10.1	17.2	46.0
0.559500	28.4	1000.0	9.000	On	N	10.1	17.6	46.0
0.703500	22.3	1000.0	9.000	On	N	10.0	23.7	46.0
0.973500	21.7	1000.0	9.000	On	N	9.9	24.3	46.0
12.673500	35.7	1000.0	9.000	On	N	9.8	14.3	50.0
14.208000	41.2	1000.0	9.000	On	N	9.8	8.8	50.0
16.512000	28.7	1000.0	9.000	On	N	9.9	21.3	50.0

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3.2 Radiated Electric Field Emissions (Below 1 GHz)

Test Date

2013-03-15

Test Location

Testing was performed at the:

☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)

Test Equipment

Name of Equipment	Model No.	Manufacturer	Serial No.	Due Date	Applied
EMI Test Receiver	ESCI7	Rohde & Schwarz	100814	2013-12-14	☒
Trilog Broadband Antenna	VULB 9161 SE	SCHWARZBECK	9161-4133	2014-06-11	☒
6dB Attenuator	DNF	Rohde & Schwarz	272.4110.50	2013-11-09	☒
Amplifier	310	Sonoma Instrument Co.	291721	2014-03-21	☒

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Setting

IF Band Width: 120 kHz

Climate Condition

Temperature: (21 ± 1) °C

Relative Humidity: (35 ± 1) %

Atmospheric Pressure: 99 kPa

Test Result

The requirements are: ☒ MET ☐ NOT MET

Frequency (MHz)	Measured Data (dBμV/m)	Margin (dB)	Remark
300.024	39.8	6.2	Quasi-peak



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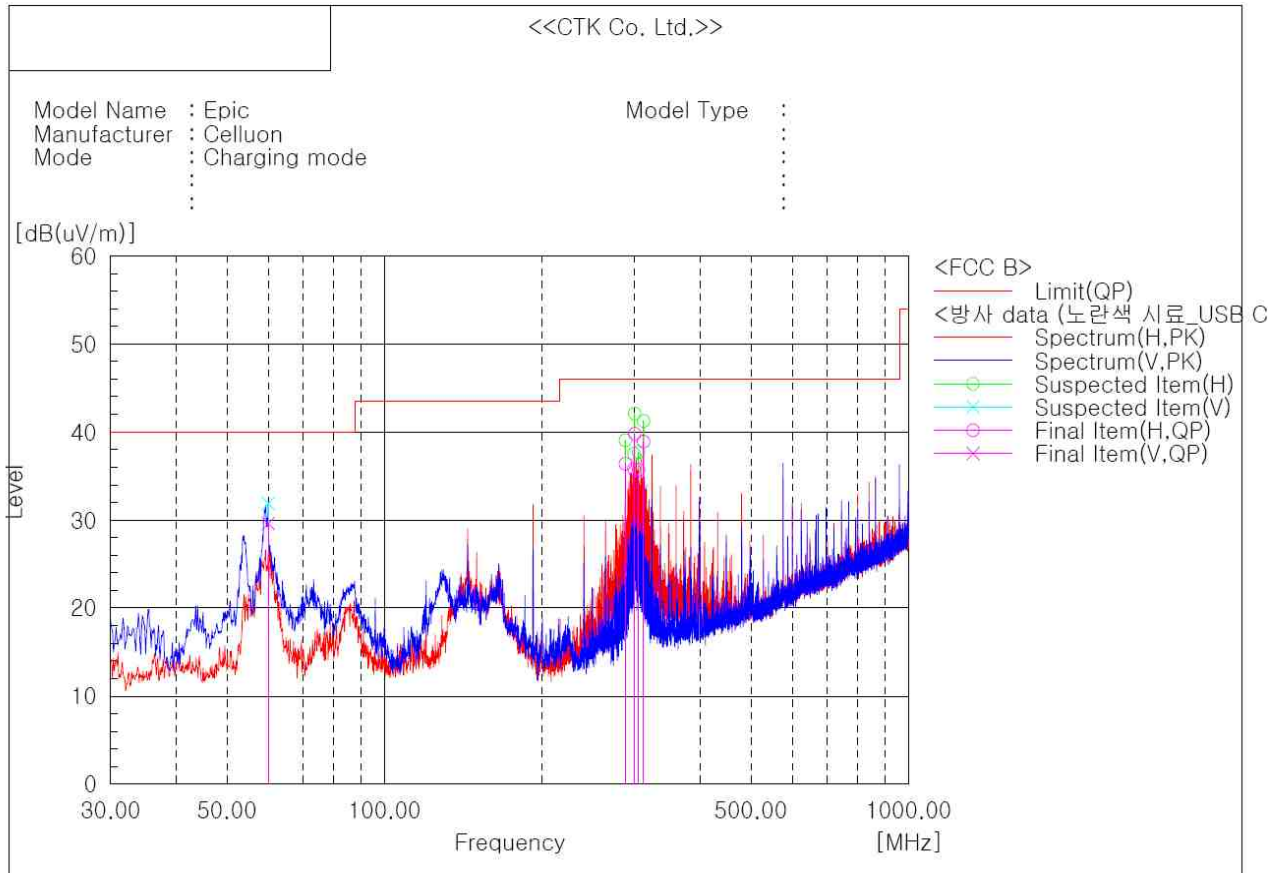
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Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	59.949	V	42.1	-12.5	29.6	40.0	10.4	293.0	257.0
2	288.020	H	47.0	-10.6	36.4	46.0	9.6	100.0	6.0
3	298.933	H	46.1	-10.3	35.8	46.0	10.2	205.0	70.0
4	300.024	H	50.0	-10.2	39.8	46.0	6.2	100.0	6.0
5	305.238	H	45.7	-10.0	35.7	46.0	10.3	100.0	6.0
6	312.028	H	48.6	-9.7	38.9	46.0	7.1	100.0	6.0



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3.3 Radiated Electric Field Emissions (Above 1 GHz)

Test Date

Not Applicable

Test Location

3 m SAC

Test Equipment

Name of Equipment	Model No.	Manufacturer	Serial No.	Due Date	Applied
EMI Test Receiver	ESU40	Rohde & Schwarz	100336	2013-06-29	☐
Double Ridged Guide Antenna	3115	ETS-Lindgren	78895	2015-02-28	☐
Preamplifier	8449B	Agilent	3008A02307	2013-11-09	☐

Frequency Range of Measurement

1 GHz to 6 GHz

Instrument Setting

IF Band Width: 1 MHz

Climate Condition

Temperature:

Relative Humidity:

Atmospheric Pressure:

Test Result

The requirements are: ☐ MET ☐ NOT MET

Frequency (MHz)	Measured Data (dB μ V/m)	Margin (dB)	Remark

Test Data



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APPENDIX A - Test Setup Photos and Configuration



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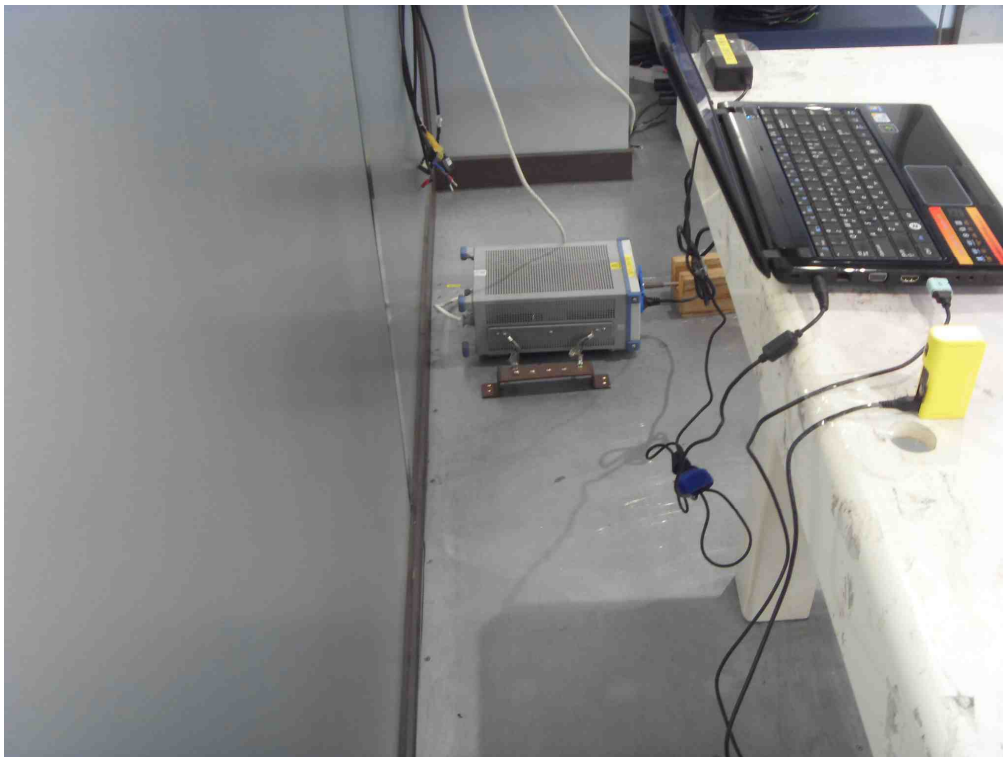
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Conducted Voltage Emissions of Mains Ports





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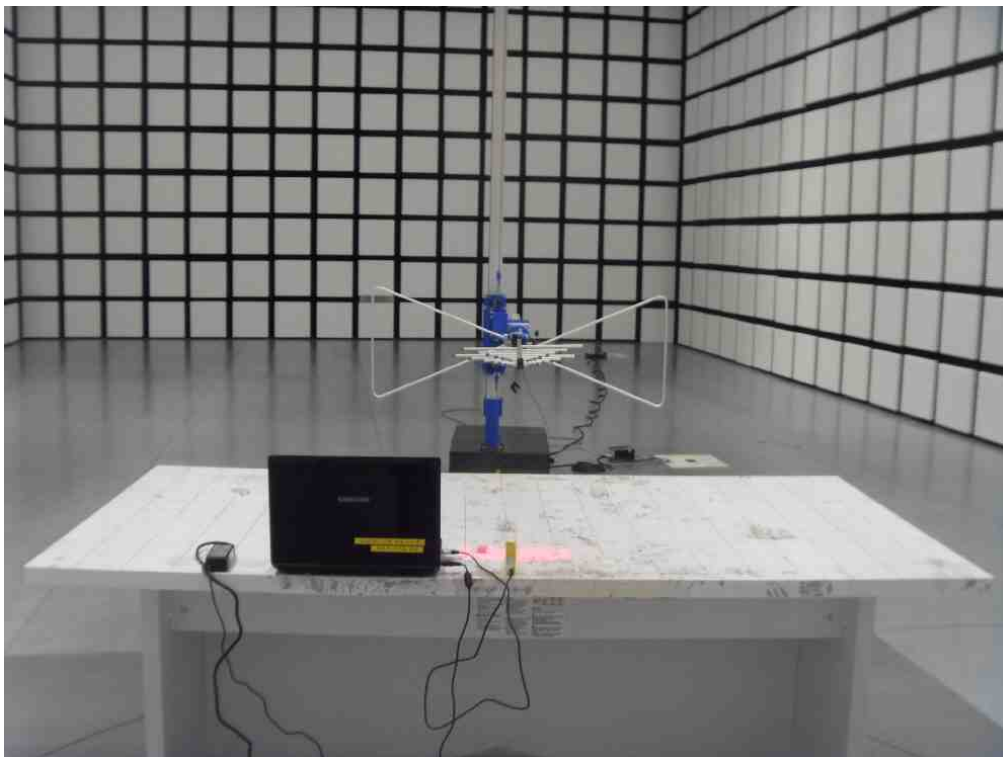
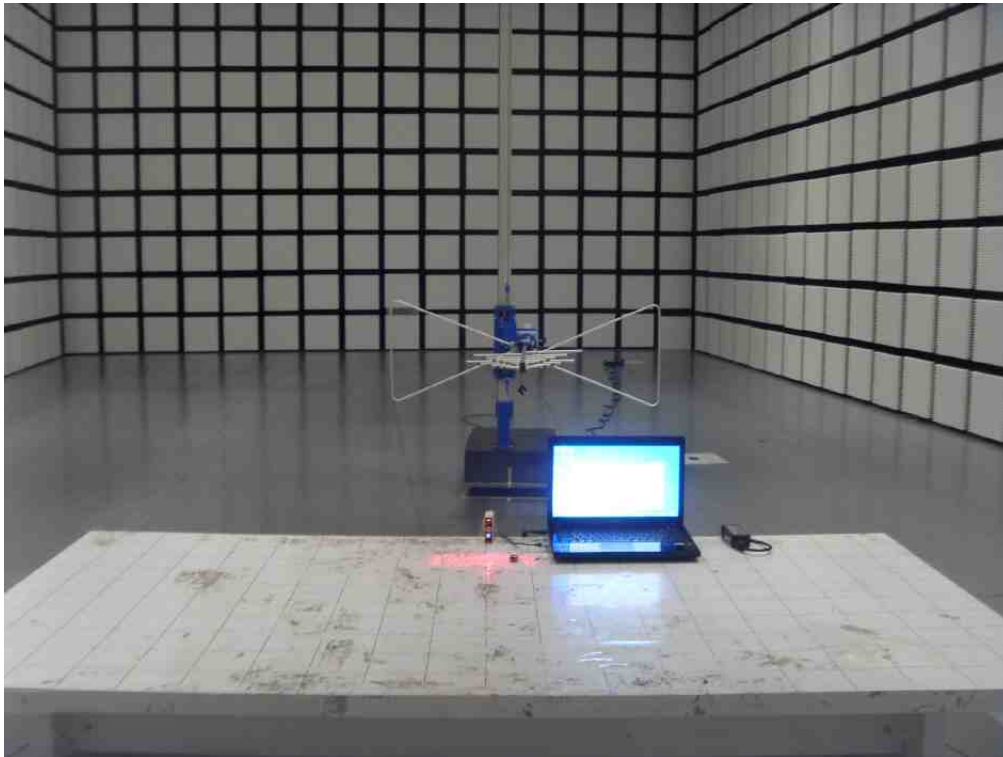
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Tel: +82-31-339-9970 Fax: +82-31-339-9855

www.e-ctk.com

Radiated Electric Field Emissions (Below 1 GHz)





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Radiated Electric Field Emissions (Above 1 GHz)

Not Applicable



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APPENDIX B – EUT Photographs



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EUT External Photographs



EUT Internal Photographs





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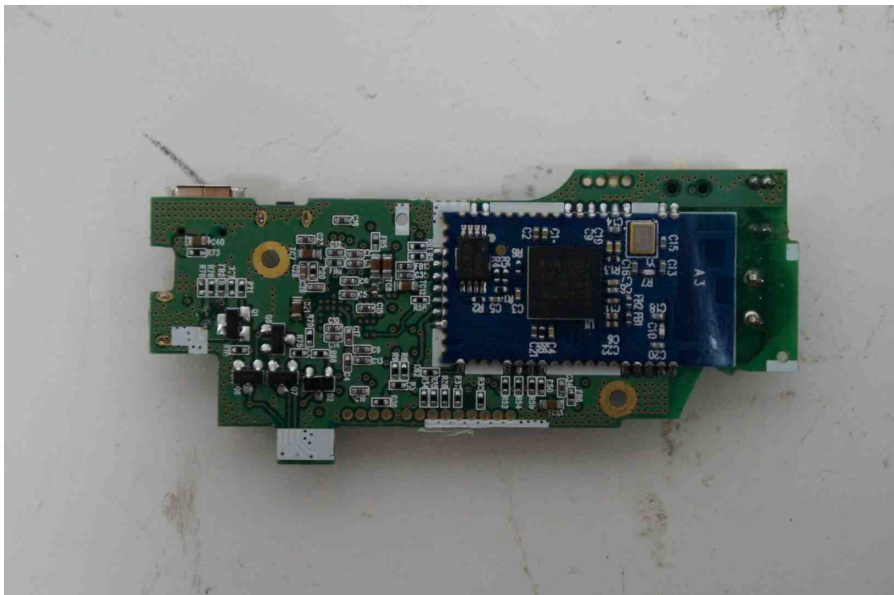
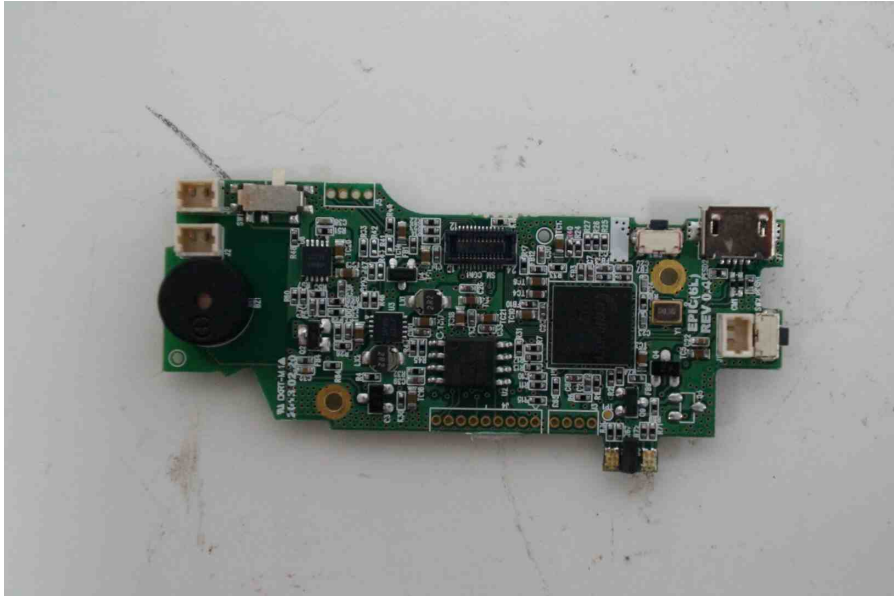
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PCB





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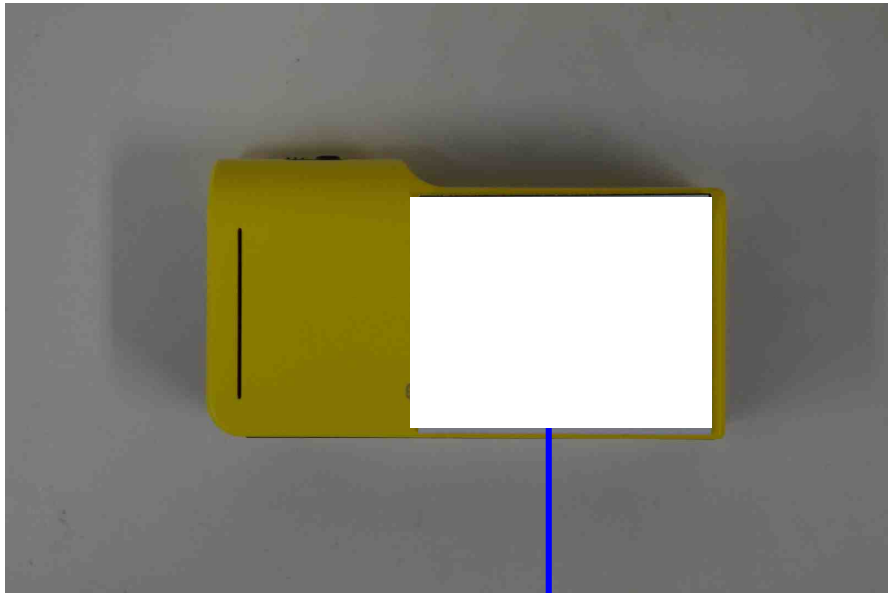


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Label and Location



Projection Keyboard

Model: Epic

FCCID: TCLEpic

IC: 10211A-Epic

This device complies with part 15 of the FCC Rules. Operating is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.



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