# **FCC Test Report**

APPLICANT : CT Asia

**EQUIPMENT**: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Zoey Plus

FCC ID : YHLBLUZOEYPLUS

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

**CLASSIFICATION**: Certification

The product was received on Feb. 06, 2015 and testing was completed on Mar. 18, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Lunis Win

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

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Report Issued Date : Mar. 25, 2015

Testing Laboratory 2353

Report No.: FC520604

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC520604	Rev. 01	Initial issue of report	Mar. 25, 2015

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## **SUMMARY OF TEST RESULT**

Report Section	FCC Rule Description		FCC Rule Description Limit		Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	10.11 dB at
					0.580 MHz
	15.109 Radiated Emi			PASS	Under limit
3.2		Padiated Emission	< 15.109 limits		4.65 dB at
3.2		Radiated Emission	< 15.109 IIIIIIIS		856.500 MHz

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## 1. General Description

## 1.1. Applicant

#### **CT** Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

### 1.2. Manufacturer

### Zechin Communications Co.,Ltd.

Unit804,8th Floor Desay Tech Building Gaoxin Road South, Nanshan District Shenzhen, China

### 1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	BLU
Model Name	Zoey Plus
FCC ID	YHLBLUZOEYPLUS
EUT supports Radios application	GSM/GPRS/Bluetooth v3.0 + EDR
HW Version	S1701-MB-V1.0
SW Version	BLU_T330_V01_GENERICANATEL_150120_2255
EUT Stage	Identical Prototype

Remark:

The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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## 1.4. Product Specification subjective to this standard

Product Specification subjective to this standard					
	GSM850 : 824.2 MHz ~ 848.8 MHz				
Tx Frequency	GSM1900 : 1850.2 MHz ~ 1909.8MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GSM850 : 869.2 MHz ~ 893.8 MHz				
Rx Frequency	GSM1900 : 1930.2 MHz ~ 1989.8 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
Antonno Tyro	WWAN : FPC Antenna				
Antenna Type	Bluetooth : FPC Antenna				
	GSM: GMSK				
	GPRS: GMSK				
Type of Modulation	Bluetooth (1Mbps): GFSK				
	Bluetooth (2Mbps) : π /4-DQPSK				
	Bluetooth (3Mbps) : 8-DPSK				

### 1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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### 1.6. Test Location

Test Site SPORTON INTERNATIONAL (SHENZHEN) INC.						
	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili					
Toot Site Location	Town, Nanshan District, Shenzhen, Guangdong, P. R. China					
Test Site Location	TEL: +86-755-8637-9589					
	FAX: +86-755-8637-9595					
Took Cita No	Sporton Site No.					
Test Site No.	CO01-SZ					

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan					
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China					
	TEL: +86-755- 3320-2398					
Took Oite No	Sporton Site No. FCC Registration N					
Test Site No.	03CH01-SZ	831040				

## 1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2009

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

		Те	st Condition	on	
Item	EUT Configuration		EMI	EMI	
		AC	RE<1G	RE≥1G	
1.	Charging Mode (EUT with adapter)	$\boxtimes$	$\boxtimes$	Note 1	
2.	Data application transferred mode		$\boxtimes$	$\boxtimes$	
	(EUT connected with notebook)				

#### Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

• EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

**Remark:** For signal above 1GHz, the worst case was test item 2.

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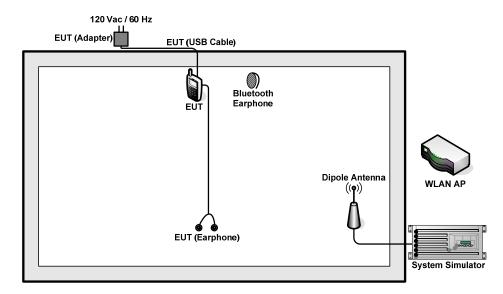
Test Items	EUT Configure Mode	Function Type
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + Camera + SIM1 <fig.1></fig.1>
AC Conducted Emission		Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 3: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery +SIM2 <fig.2></fig.2>
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + Camera + SIM1 <fig.1></fig.1>
Radiated Emissions < 1GHz		Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 3: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery + SIM2 <fig.2></fig.2>
Radiated Emissions ≥ 1GHz	2	Mode 1: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery + SIM2 <fig.2></fig.2>

#### Remark:

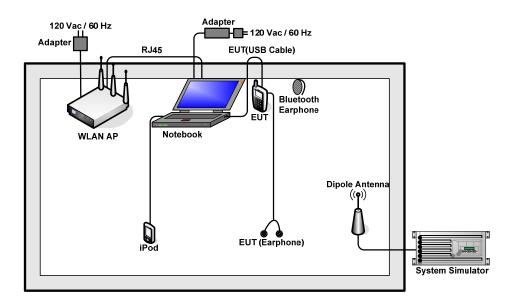
- 1. The worst case of AC is mode 3; only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode was reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

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## 2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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## 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Agilent	8960	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
3.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
4.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
5.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8 m
6.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
7.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
8.	iPod	Apple	MC525ZP/A	FCC DoC	Shielded, 1.0 m	N/A

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### 2.4. EUT Operation Test Setup

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Execute the program, "Winthrax" under WIN7 installed in notebook for files transfer with EUT via USB cable / iPod.
- 2. Execute "Video Player" to play MPEG4 files.
- 3. Turn on camera to capture images.

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### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

#### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted limit (dBuV)			
(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

<sup>\*</sup>Decreases with the logarithm of the frequency.

### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.1.3 Test Procedure

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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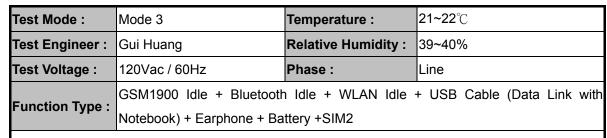
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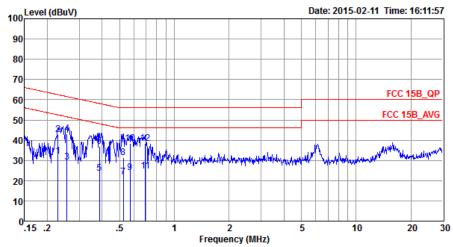
### 3.1.4 Test Setup



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### 3.1.5 Test Result of AC Conducted Emission





Site : CO01-SZ

Condition: FCC 15B\_QP LISN\_L\_20140304 LINE

Project : (FC)520604 Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu₹	dB	dB	
1	0.23	32.19	-20.29	52.48	21.70	0.23	10.26	Average
2	0.23	42.89	-19.59	62.48	32.40	0.23	10.26	QP
3	0.26	29.28	-22.28	51.56	18.80	0.24	10.24	Average
4	0.26	43.28	-18.28	61.56	32.80	0.24	10.24	QP
5	0.39	23.65	-24.47	48.12	13.20	0.28	10.17	Average
6	0.39	37.05	-21.07	58.12	26.60	0.28	10.17	QP
7	0.52	21.84	-24.16	46.00	11.41	0.28	10.15	Average
8	0.52	31.34	-24.66	56.00	20.91	0.28	10.15	QP
9	0.57	24.01	-21.99	46.00	13.61	0.25	10.15	Average
10	0.57	38.51	-17.49	56.00	28.11	0.25	10.15	QP
11	0.69	24.63	-21.37	46.00	14.30	0.18	10.15	Average
12 *	0.69	38.53	-17.47	56.00	28.20	0.18	10.15	QP

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**21~22**℃ Test Mode: Mode 3 Temperature: Test Engineer: Gui Huang Relative Humidity: 39~40% Test Voltage: 120Vac / 60Hz Phase: Neutral GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + Battery +SIM2 100 Level (dBuV) Date: 2015-02-11 Time: 16:17:50 90 80 70 FCC 15B\_QP 60 FCC 15B\_AVG 50 40 30 20 10 .15 .2 10 20 30 Frequency (MHz) Site : CO01-SZ Condition: FCC 15B QP LISN N 20140304 NEUTRAL Project : (FC) 520604 : Mode 3 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark dBuV dB dBuV dBuV MHz dB dB 0.26 34.88 -16.63 51.51 24.30 0.34 10.24 Average 0.26 47.68 -13.83 61.51 37.10 0.34 10.24 QP 3 0.35 34.26 -14.79 49.05 23.70 0.37 10.19 Average 0.35 44.66 -14.39 59.05 34.10 0.37 10.19 QP 0.40 27.16 -20.65 47.81 16.60 0.39 10.17 Average 0.39 10.17 QP 0.40 43.26 -14.55 57.81 32.70 0.44 22.76 -24.22 46.98 12.20 0.44 40.66 -16.32 56.98 30.10 7 0.40 10.16 Average 0.40 10.16 QP 8 0.58 32.19 -13.81 46.00 21.70 0.34 10.15 Average 0.58 45.89 -10.11 56.00 35.40 0.69 30.01 -15.99 46.00 19.60 0.34 10.15 QP 0.26 10.15 Average 10 \* 11 0.69 44.71 -11.29 56.00 34.30 0.26 10.15 QP

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#### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

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Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

#### 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

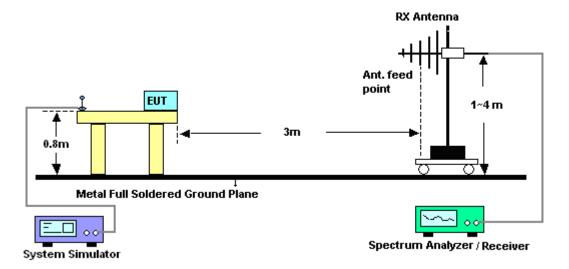
#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

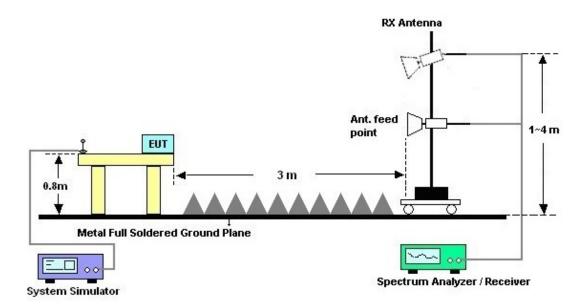
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### 3.2.4. Test Setup of Radiated Emission

### For radiated emissions from 30MHz to 1GHz

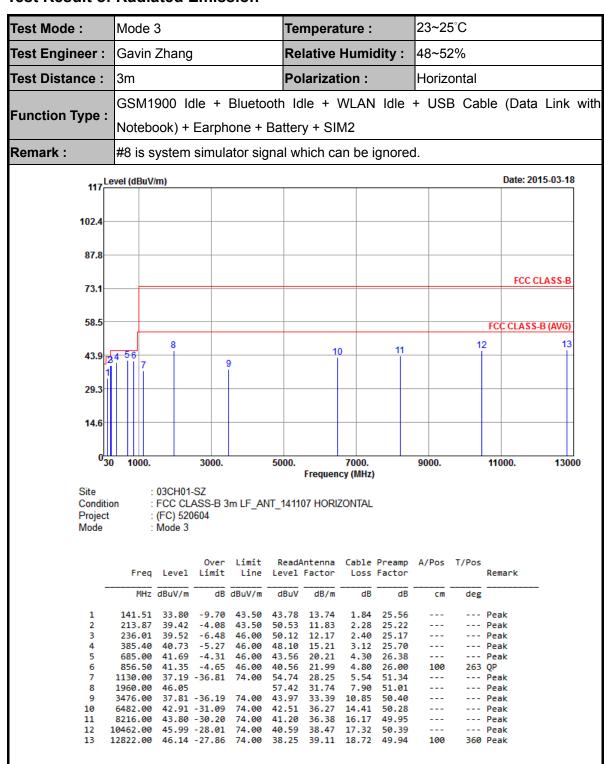


#### For radiated emissions above 1GHz



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#### 3.2.5. Test Result of Radiated Emission



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23~25°C Test Mode: Mode 3 Temperature: Test Engineer: Gavin Zhang **Relative Humidity:** 48~52% Test Distance: Polarization: 3m Vertical GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + Battery + SIM2 Remark: #7 is system simulator signal which can be ignored. 117 Level (dBuV/m) Date: 2015-03-18 102.4 87.8 FCC CLASS-B 73.1 58.5 FCC CLASS-B (AVG) 13 43.9 29.3 14.6 1000. 9000. 11000. 13000 5000. Frequency (MHz) Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF\_ANT\_141107 VERTICAL Project : (FC) 520604 Mode : Mode 3 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB dB dB/m deg cm141.51 32.04 -11.46 43.50 42.02 13.74 Peak 235.47 31.71 -14.29 46.00 46.00 42.31 12.17 2.40 2.73 25.17 ------ Peak 299.73 32.55 -13.45 40.76 3 14.10 25.04 --- Peak 685.00 41.94 -4.06 46.00 43.81 20.21 26.38 --- Peak 770.40 42.17 -3.83 46.00 42.04 21.84 4.52 26.23 --- Peak -3.16 6 7 855.80 42.84 46.00 42.05 22.00 4.79 26.00 100 230 Peak 1960.00 47.31 31.74 7.90 58.68 51.01 ------ Peak 41.51 -32.49 8 2080.00 74.00 32.29 8.10 --- Peak 52.05 50.93 4588.00 38.68 -35.32 74.00 --- Peak 10 6540.00 42.02 -31.98 74.00 41.66 36.29 14.43 50.36 ------ Peak ---11 8312.00 43.56 -30.44 74.00 40.74 36.31 16.25 49.74 --- Peak 10494.00 45.07 -28.93 74.00 39.66 38.49 17.32 50.40 Peak 12574.00 45.91 -28.09 74.00 38.00 39.25 18.47 49.81 360 Peak

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## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI TEST Receiver	R&S	ESCI7	100768	9kHz~3GHz	May 04, 2014	Mar. 18, 2015	May 03, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Mar. 18, 2015	May 25, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	37877	30MHz~2GHz	Oct. 15, 2014	Mar. 18, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Mar. 18, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Amplifier	com-power	PA-103A	161069	1~1000MHz	May 04, 2014	Mar. 18, 2015	May 03, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Mar. 18, 2015	May 07, 2015	Radiation (03CH01-SZ)
AC Source	Chroma	61601ACSOU RCE	61601000247 0	100Vac~240Vac	NCR	Mar. 18, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Mar. 18, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Mar. 18, 2015	NCR	Radiation (03CH01-SZ)
EMI TEST Receiver	R&S	ESCI7	100768	9kHz~3GHz	May 04, 2014	Feb. 11, 2015	May 03, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Feb. 02, 2015	Feb. 11, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Feb. 02, 2015	Feb. 11, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Sep. 29, 2014	Feb. 11, 2015	Sep. 28, 2015	Conduction (CO01-SZ)

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## 5. Uncertainty of Evaluation

### <u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of	2.3dB	
Confidence of 95% (U = 2Uc(y))	2.5uB	

### <u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	0.040
Confidence of 95% (U = 2Uc(y))	3.9dB

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