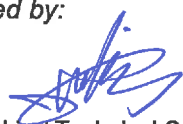


Prüfbericht-Nr.: <i>Test report No.:</i>	50064681 001	Auftrags-Nr.: <i>Order No.:</i>	164074884	Seite 1 von 14 Page 1 of 14	
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date.:</i>	26.09.2016		
Auftraggeber: <i>Client:</i>	BBB Inc. 28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea				
Prüfgegenstand: <i>Test item:</i>	Mobile Phone				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	EZ-100 (elemark™, mobihealth)				
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109				
Wareneingangsdatum: <i>Date of receipt:</i>	08.08.2016	Please refer to photo documents			
Prüfmuster-Nr.: <i>Test sample No.:</i>	STR16098108I-6				
Prüfzeitraum: <i>Testing period:</i>	08.08.2016 - 07.12.2016				
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen SEM.Test Technology Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
 29.12.2016 Lin Lin / Project Manager		 29.12.2016 Sam Lin / Technical Certifier			
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:					
FCC ID: 2AKGP-EZ100					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested		
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

V04

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Test Summary

5.1.1 CONDUCTED EMISSIONS

RESULT: Pass

5.1.2 RADIATED EMISSIONS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A: Test Results of Conducted Emissions and Radiated Emissions

2 Test Sites

2.1 Test Facilities

Shenzhen SEM.Test Technology Co., Ltd.

1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, China

FCC Registration No.: 934118

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Shenzhen SEM.Test Technology Co., Ltd.

Radiated Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Spectrum Analyzer	Agilent	E4407B	MY41440400	03.06.2017
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	03.06.2017
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	03.06.2017
Amplifier	Agilent	8447F	3113A06717	03.06.2017
Amplifier	C&D	PAP-1G18	2002	03.06.2017
Broadband Antenna	Schwarz beck	VULB9163	9163-333	03.06.2017
Horn Antenna	ETS	3117	00086197	03.06.2017
Horn Antenna	ETS	3116B	00088203	03.06.2017
Loop Antenna	Schwarz beck	FMZB 1516	9773	03.06.2017
Conducted Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	03.06.2017
L.I.S.N	Schwarz beck	NSLK8126	8126-224	03.06.2017
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	03.06.2017

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table:

Table 2: Measurement Uncertainty

Items	Extended Uncertainty
Conducted Emissions	± 2.88 dB
Radiated Emissions (30-1000MHz)	± 5.10 dB

Radiated Emissions (above 1000MHz)	± 5.10 dB
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2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen SEM.Test Technology Co., Ltd. Test facility located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Mobile Phone which supports Data transfer, Video playing function etc. It also supports GSM, WCDMA, LTE, Bluetooth (dual mode), WiFi 802.11 b/g/n and GPS wireless technology. This report is only for JBP. Other functions are reported in the related reports.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Mobile Phone
Type Designation	EZ-100
Trade Mark	elemark™, mobihealth
FCC ID	2AKGP-EZ100
Operating Temperature Range	-30°C ~ +50 °C
Highest internal source	1GHz
Operating Voltage	USB Operated
Testing Voltage	5Vdc from PC with input 120Vac, 60Hz

3.3 Independent Operation Modes

The basic operation modes are:

A.1 Data Transfer

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- User Manual
- FCC/IC Label and Location Info
- Photo Document

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emissions: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2014.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Desktop	DELL	OPTIPLEX 380	N/A	N/A
TF card	Kingston	Class 10	N/A	N/A
AC/DC Adapter	BBB Inc	HNFG050100UE	N/A	Input: 100-240Vac, 50/60Hz Output: 5Vdc, 1A
USB cable	BBB Inc	Unshielded	N/A	Length: 1.0m
earphone	BBB Inc	Unshielded	N/A	Length: 1.2m

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

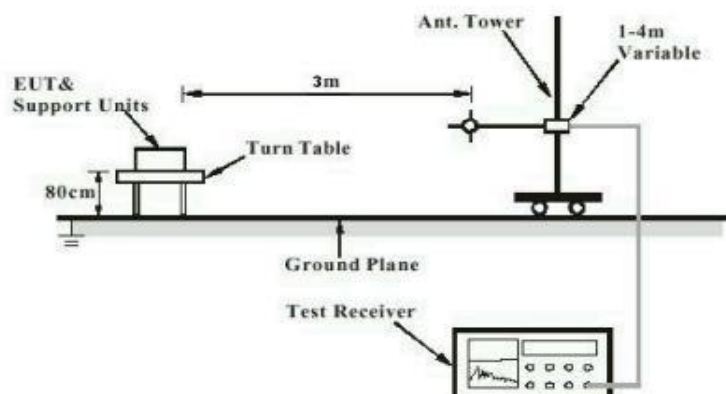


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

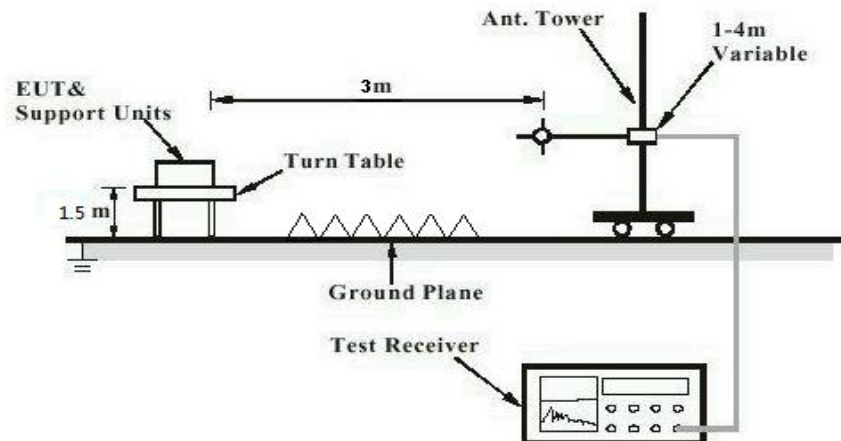
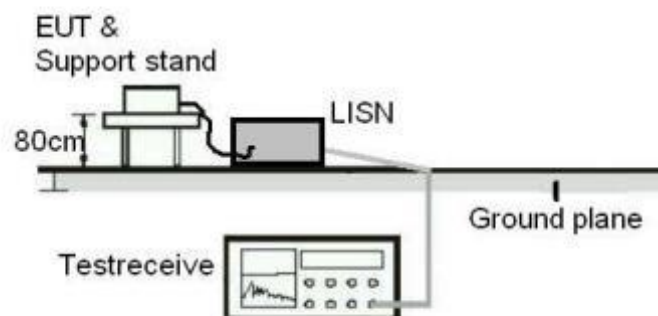


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Conducted Emissions

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.107(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 0.15MHz to 30MHz
Classification	: Class B
Limits	: FCC Part 15.107(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 25.10.2016
Input voltage	: 5Vdc from PC with input 120Vac, 60Hz
Operation mode	: A.1
Earthing	: Not connected
Ambient temperature	: 23 °C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 001 Appendix A for detail test data.

5.1.2 Radiated Emissions**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.109(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30MHz to 6000MHz
Classification	: Class B
Limits	: FCC Part 15.109(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 25.10.2016
Input voltage	: 5Vdc from PC with input 120Vac, 60Hz
Operation mode	: A.1
Earthing	: Not connected
Ambient temperature	: 23 °C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

Refer to 50064681 001 Appendix A for detail test data.