

Report No.: FD0O2916

FCC Test Report

APPLICANT : CT Asia

EQUIPMENT: mobile phone

BRAND NAME : BLU
MODEL NAME : SPEED

FCC ID : YHLBLUSPEED

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Oct. 29, 2010 and completely tested on Nov. 15, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:



erson Chiu





SPORTON INTERNATIONAL (KUNSHAN) INC.

No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YHLBLUSPEED Page Number : 1 of 21
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FD0O2916	Rev. 01	Initial issue of report	Nov. 24, 2010

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	7.2.2	AC Conducted Emission	< 15.107 limits < RSS-Gen table 2 limits	PASS	Under limit 7.37 dB at 16.77 MHz
3.2	15.109	7.2.3.2	Radiated Emission	< 15.109 limits or < RSS-Gen table 1 limits (Section 6)	PASS	Under limit 0.80 dB at 479.90 MHz

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1. General Description

1.1. Applicant

CT Asia

RMA2011, 20/F., GOLDEN CENTRAL TOWER, NO. 3037# JINTIAN ROAD, FUTIAN DISTRICT

1.2. Manufacturer

CT Asia

RMA2011, 20/F., GOLDEN CENTRAL TOWER, NO. 3037# JINTIAN ROAD, FUTIAN DISTRICT

1.3. Feature of Equipment Under Test

Product Feature & Specification					
Equipment	mobile phone				
Brand Name	BLU				
Model Name	SPEED				
FCC ID	YHLBLUSPEED				
Tx Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band V: 824 MHz ~ 849 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz WLAN: 2400 MHz ~ 2483.5 MHz				
Rx Frequency Range	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band V: 869 MHz ~ 894 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz WLAN: 2400 MHz ~ 2483.5 MHz				
Antenna Type	Fixed Internal Antenna				
Antenna Connector Type	N/A				
HW Version	V3.0				
SW Version	ZW91B_37A0_V_1_0_7				
Type of Modulation	GSM / GPRS : GMSK WCDMA : QPSK Bluetooth (1Mbps) : GFSK Bluetooth EDR (2Mbps) : π/4-DQPSK Bluetooth EDR (3Mbps) : 8-DPSK 802.11b : DSSS (BPSK / QPSK / CCK) 802.11g : OFDM (BPSK / QPSK / 16QAM / 64QAM)				
EUT Stage	Production Unit				

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. Test Site

Test Site	SPORTON INTERNATIONAL (KUNS	HAN) INC.	
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.		
Test Site Location	TEL: +86-0512-5790-0158		
FAX: +86-0512-5790-0958			
Tool Cita No	Sporton Site No.		
Test Site No.	CO01-KS	03CH01-KS	

1.5. Applied 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 C63.4-2003
- · IC RSS-Gen Issue 2

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

1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	PC	DELL	MT320	FCC DoC	N/A	Unshielded, 1.8 m
3.	(USB)Mouse	DELL	N231	FCC DoC	Shielded, 1.8 m	N/A
4.	(USB)Keyboard	DELL	SK-8115	FCC DoC	Shielded, 1.8 m with core	N/A
5.	Monitor	DELL	E1910Hc	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
6.	Printer	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
7.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
8.	Bluetooth Earphone	Nokia	HS-12W	PYAHS-12W	N/A	N/A
9.	Router	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m

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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 C63.4-2003 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.

			Test Condition	
Item	EUT Configuration	EMI	EMI	EMI
		AC	RE<1G	RE≥1G
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	Note 1
2.	Charging Mode (EUT with PC)			\boxtimes

Abbreviations:

EMI AC: AC conducted emissions

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

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

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

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + WLAN Idle + Bluetooth Idle + Adapter + Camera
AC Conducted Emission	1/2	Mode 2: WCDMA Band V Idle + WLAN Idle + Bluetooth Idle + Adapter + MPEG4
		Mode 3: WCDMA Band V Idle + WLAN Idle + Bluetooth Idle + USB Cable (Link with PC)
		Mode 1: GSM850 Idle + WLAN Idle + Bluetooth Idle + Adapter + Camera
Radiated Emissions < 1GHz	1/2	Mode 2: GSM1900 Idle + WLAN Idle + Bluetooth Idle + Adapter + MPEG4
		Mode 3: WCDMA Band V Idle + WLAN Idle + Bluetooth Idle + USB Cable (Link with PC)
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA Band V Idle + WLAN Idle + Bluetooth Idle + USB Cable (Link with PC)

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.

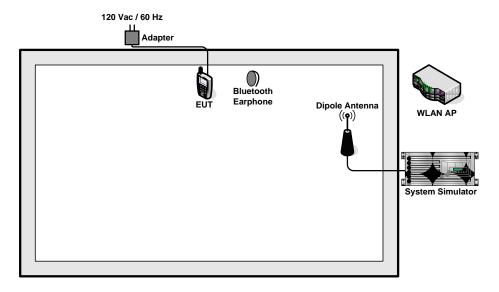
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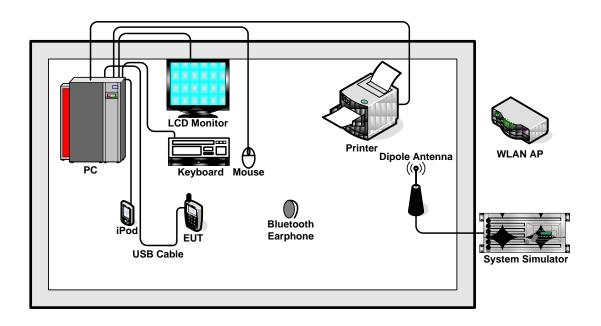
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2.2. Connection Diagram of Test System

<EUT with Adapter Mode>



<EUT with USB Cable (Link with PC) Mode>



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2.3. Test Software

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

The EUT was attached to the Bluetooth earphone and WLAN AP, and execute the program, "Winthrax", installed in PC for active sync files transfer with EUT via USB cable.

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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

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

- 1. 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 with Maximum Hold Mode.

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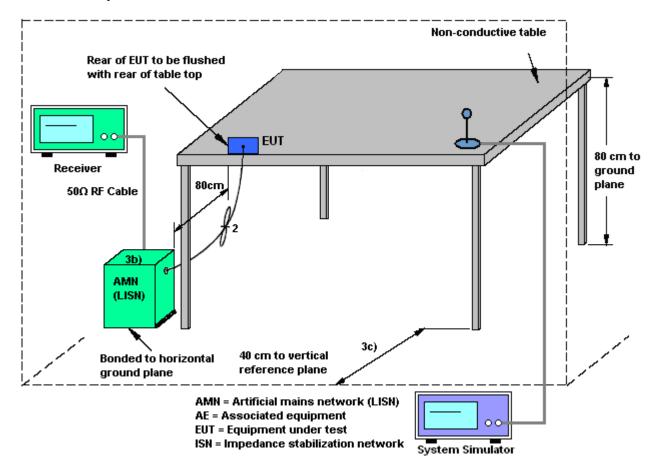
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3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 3			Temperature :		21~22 ℃			
Test Engineer :	Lewis Lu			Relativ	ve Hum	nidity :	42~43%		
Test Voltage :	120Vac	/ 60Hz		Phase: Line			Line		
Function Type :	WCDMA	A Band V Idle	nd V Idle + WLAN Idle + Bluetooth Idle + USB C				e + USB Ca	able (Lin	k with PC
Remark :	All emiss	sions not repo	orted h	ere are	more t	han 10	dB below th	ne presc	ribed limi
80	Level (dBuV	0					D	ate: 2010-1	1-09
40							FCC	FCC CLASS	22.00
0	.15 .2	.5	<u>/1///////////////////////////////////</u>			// <mark>///////////////////////////////////</mark>	Market Market Market	20	30
Site	.15 .2 : C001-KS							20	30
Site	: COO1-KS h: FCC CLAS : MODE3	SS-B LISN-10080		Freque Read	2	5 Cable		20	30
Site Condition	: COO1-KS h: FCC CLAS : MODE3	SS-B LISN-10080 Over	7 LINE Limit	Freque Read	2 ncy (MHz) LISN	5 Cable	10	20	30

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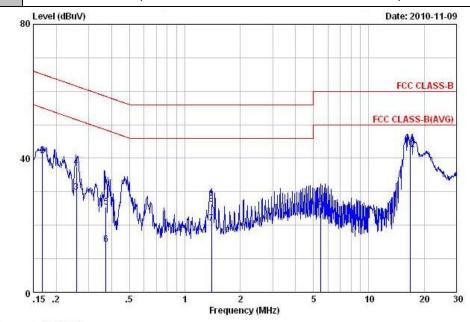
 Test Mode :
 Mode 3
 Temperature :
 21~22°C

 Test Engineer :
 Lewis Lu
 Relative Humidity :
 42~43%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

Function Type: WCDMA Band V Idle + WLAN Idle + Bluetooth Idle + USB Cable (Link with PC)

Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COO1-KS

Condition: FCC CLASS-B LISN-100807 NEUTRAL

aode	: MODE3		Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
-	MHz	dBu₹	dB	dBu₹	dBuV	dB	dB	-
1	0.17	39.86	-15.21	55.07	29.80	-0.08	10.14	Average
2	0.17	40.86	-24.21	65.07	30.80	-0.08	10.14	QP
3	0.26	29.79	-21.73	51.52	19.70	-0.07	10.16	Average
4	0.26	37.49	-24.03	61.52	27.40	-0.07	10.16	QP
1 2 3 4 5 6 7 8 9	0.37	25.51	-32.95	58.46	15.40	-0.08	10.19	QP
6	0.37	14.21	-34.25	48.46	4.10	-0.08	10.19	Average
7	1.40	20.39	-25.61	46.00	10.20	-0.10	10.29	Average
8	1.40	26.29	-29.71	56.00	16.10	-0.10	10.29	QP
9	5.48	25.38	-34.62	60.00	15.11	-0.13	10.40	QP
10	5.48	24.38	-25.62	50.00	14.11	-0.13	10.40	Average
11	16.77	44.63	-15.37	60.00	34.11	-0.01	10.53	QP
12	16.77	42.63	-7.37	50.00	32.11	-0.01	10.53	Average

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

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

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

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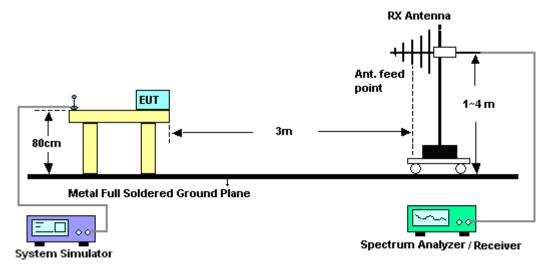
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3.2.3. Test Procedures

- 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 meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. 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.
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
- 8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

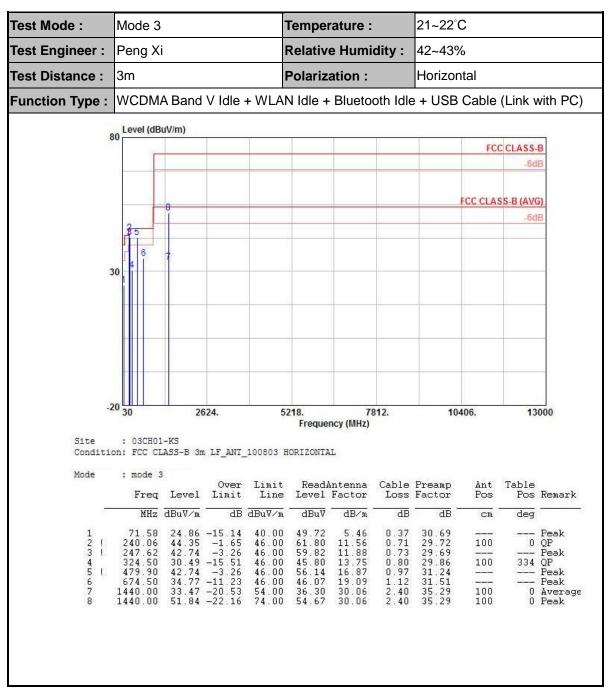


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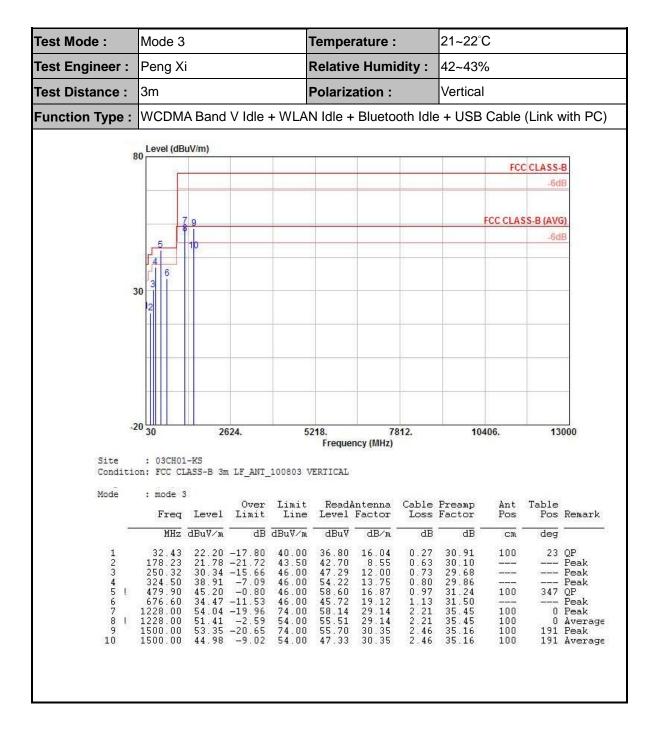


3.2.5. Test Result of Radiated Emission



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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 17, 2009	Nov. 16, 2010	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Jan. 18, 2010	Jan. 17, 2011	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Jan. 18, 2010	Jan. 17, 2011	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	N/A	Nov. 26, 2009	Nov. 25, 2010	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100724	9kHz – 2.75GHz	Mar. 09, 2010	Mar. 08, 2011	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060004	30MHz~2GHz	Feb. 02, 2010	Feb. 01, 2011	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Actice hore antenna	com-power	AHA-118	701023	1G-18GHz	Nov. 09, 2010	Nov. 08, 2011	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15-40GHz	Oct. 15, 2010	Oct.14, 2011	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	Jul. 29, 2010	Jul. 28, 2011	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	837587/066	Full-Band	Jan. 08, 2009	Jan. 07, 2011	-

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

	Uncerta			
Contribution	dB	Probability Distribution	u(X _i)	
Receiver Reading	0.10	Normal (k=2)	0.05	
Cable Loss	0.10	Normal (k=2)	0.05	
AMN Insertion Loss	2.50	Rectangular	0.63	
Receiver Specification	1.50	Rectangular	0.43	
Site Imperfection	1.39	Rectangular	0.80	
Mismatch	+0.34 / -0.35	U-Shape	0.24	
Combined Standard Uncertainty Uc(y)	1.13			
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.26			

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

	Uncerta			
Contribution	dB	Probability Distribution	u(X _i)	
Receiver Reading	0.41	Normal (k=2)	0.21	
Antenna Factor Calibration	0.83	Normal (k=2)	0.42	
Cable Loss Calibration	0.25	Normal (k=2)	0.13	
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14	
RCV/SPA Specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site Imperfection	1.43	Rectangular	0.83	
Mismatch	+0.39 / -0.41	U-Shape	0.28	
Combined Standard Uncertainty Uc(y)	1.27			
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54			

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

	Uncertai					
Contribution	dB	Probability Distribution	u(X _i)	C _i	C _i * u(X _i)	
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10	
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85	
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25	
Receiver Correction	±2.00	Rectangular	1.15	1	1.15	
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87	
Site Imperfection	±2.80	Triangular	1.14	1	1.14	
Mismatch Receiver VSWR Γ 1 = 0.197 Antenna VSWR Γ 2 = 0.194 Uncertainty = 20Log(1- Γ 1* Γ 2)	+0.34 / -0.35	U-Shape	0.244	1	0.244	
Combined Standard Uncertainty Uc(y)	2.36					
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.72					

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP0O2916 as below.

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