FCC RF Test Report

APPLICANT : Elo Touch Solutions, Inc.

EQUIPMENT : Touch All-in-One Computer

BRAND NAME : Elo or [] []
MODEL NAME : ESY10i1

FCC ID : RBWESY10I1

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Dec. 02, 2014 and testing was completed on Dec. 25, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

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Report No.: FR4D0212B

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4D0212B	Rev. 01	Initial issue of report	Jan. 06, 2015
FR4D0212B	Rev. 02	Revising the brand name information.	Jan. 09, 2015
FR4D0212B	Rev. 03	Revising the applicant information	Jan. 15, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	RSS-210 A8.2(a)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	RSS-Gen 4.6.1	99% Bandwidth	-	Pass	-
3.2	15.247(b)(1)	RSS-210 A8.1(b)	Peak Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	RSS-210 A8.2(b)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	RSS-210 A8.5	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	RSS-210 A8.5	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 4.02 dB at 56.460 MHz
3.6	15.207	RSS-Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 3.20 dB at 27.118 MHz
3.7	15.203 & 15.247(b)	RSS-210 A8.4	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

Elo Touch Solutions, Inc. 1033McCarthy Blvd, Milpitas, CA95035,USA

1.2 Product Feature of Equipment Under Test

Product Feature				
Equipment	Touch All-in-One Computer			
Brand Name	Elo or 🖟 🛭			
Model Name	ESY10i1			
FCC ID	RBWESY10I1			
EUT supports Radios application	WLAN 11b/g/n HT20			
EUT Supports Radios application	Bluetooth v4.0 EDR/LE			
HW Version	A00			
SW Version	0.11			
EUT Stage	Production Unit			

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

1.3 Product Specification subjective to this standard

Product Specification subjective to this standard				
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz			
Number of Channels	40			
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)			
Maximum Output Power to Antenna	3.00 dBm (0.0020 W)			
99% Occupied Bandwidth	1.060MHz			
Antenna Type	PIFA Antenna type with gain -2.04 dBi			
Type of Modulation	Bluetooth LE : GFSK			

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1.4 Modification of EUT

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

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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Test Site	SPORTON INTERNATIONAL INC.			
	No. 52, Hwa Ya 1 st Rd., I	Hwa Ya Technology Park,		
Test Site Location	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.			
lest site Location	TEL: +886-3-327-3456			
	FAX: +886-3-328-4978			
Took Site No.		Sporton Site No.		
Test Site No.	TH02-HY	CO05-HY	03CH07-HY	

Note: The test site complies with ANSI C63.4 2009 requirement.

1.6 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- ANSI C63.10-2013

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
- 3. The EUT was placed 1.5m height for frequency above 1GHz in accordance with ANSI C63.10 2013 through FCC inquiry (KDB 961829).

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2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

The RF output power was recorded in the following table:

		Bluetooth 4.0 – LE RF Output Power
Channel	Frequency	Data Rate / Modulation
Chamilei		GFSK
		1Mbps
Ch00	2402MHz	2.29 dBm
Ch19	2440MHz	3.00 dBm
Ch39	2480MHz	2.45 dBm

- a. The EUT has been associated with peripherals 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 (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Z plane as worst plane) from all possible combinations.
- b. AC power line Conducted Emission was tested under maximum output power.

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2.2 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Summary table of Test Cases					
Test Item	Data Rate / Modulation					
rest item	Bluetooth 4.0 – LE / GFSK					
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps					
TCs	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
ics	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps					
Radiated	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps					
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps					
AC	Mode 1: WI AN Link - Plusteeth Link - MSP On (Miero LISP et hettem side) - P.L.45					
Conducted	Mode 1: WLAN Link + Bluetooth Link + MSR On (Micro USB at bottom side) + RJ-45					
Emission	(Load) + MPEG4 + RFID On (Micro USB at right side) + TC + Adapter 2					

Remark:

- TC stands for Test Configuration, and consists of Earphone, Micro HDMI, USB flash drive, and SD Card
- 2. All the radiated test cases were performed with Adapter 1.

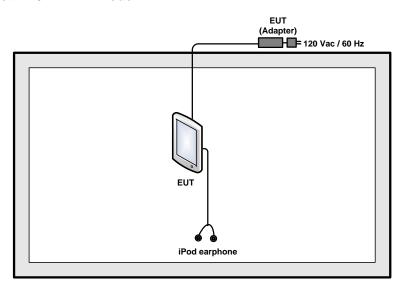
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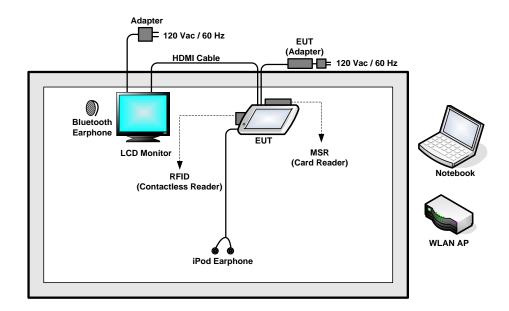
Report No.: FR4D0212B

2.3 Connection Diagram of Test System

<Bluetooth 4.0 - LE Tx Mode>



<AC Conducted Emission Mode>



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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
5.	USB flash drive	Transcend	N/A	FCC DoC	N/A	N/A
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
7.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
8.	RFID (Contactless Reader)	Uniform	UIC680 Series	TFJ680TG	N/A	N/A
9.	MSR (Card Reader)	Magtek	21030085	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

For Bluetooth function, programmed RF utility, "QRCT" installed in the EUT make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

= 4.2 + 10 = 14.2 (dB)

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Test Result 3

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

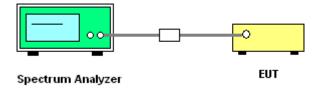
- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

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- Set to the maximum power setting and enable the EUT transmit continuously. 3.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 30kHz and set the Video bandwidth (VBW) = 100kHz.
- 6. Measure and record the results in the test report.

3.1.4 Test Setup



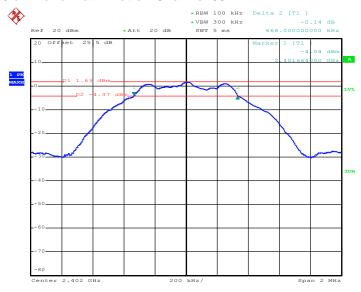
Report Version : Rev. 03 FCC ID: RBWESY10I1 Report Template No.: BU5-FR15CBT4.0 Version 1.0

3.1.5 Test Result of 6dB Bandwidth

Test Mode :	Bluetooth 4.0 - LE	Temperature :	22~25 ℃
Test Engineer :	Osolemio Chang	Relative Humidity :	51~55%

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
00	2402	0.668	0.5	Pass
19	2440	0.668	0.5	Pass
39	2480	0.672	0.5	Pass

6 dB Bandwidth Plot on Channel 00



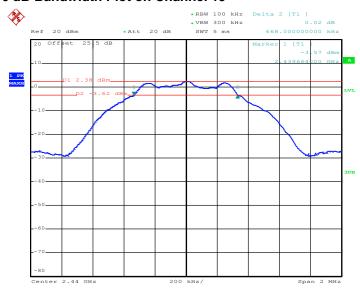
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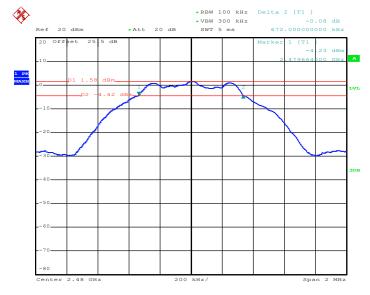
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6 dB Bandwidth Plot on Channel 19



Date: 11.DEC.2014 01:13:25

6 dB Bandwidth Plot on Channel 39



Date: 11.DEC.2014 01:17:16

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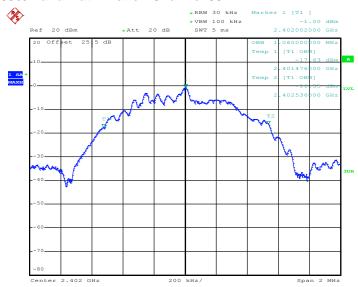
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3.1.6 Test Result of 99% Occupied Bandwidth

Test Mode :	Bluetooth 4.0 - LE	Temperature :	22~25 ℃
Test Engineer :	Osolemio Chang	Relative Humidity :	51~55%

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
00	2402	1.060
19	2440	1.056
39	2480	1.058

99% Bandwidth Plot on Channel 00

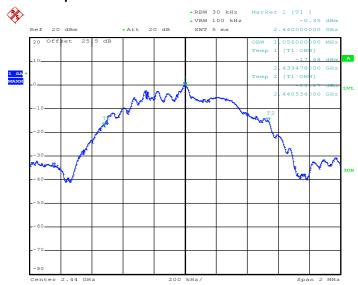


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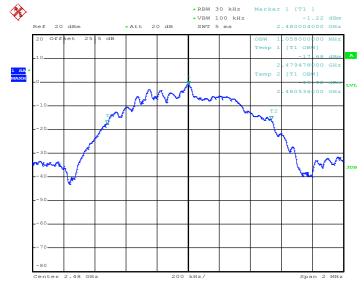
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99% Occupied Bandwidth Plot on Channel 19



Date: 11.DEC.2014 01:15:17

99% Occupied Bandwidth Plot on Channel 39



Date: 11.DEC.2014 01:19:48

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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3.2 Peak Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

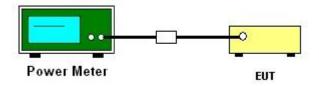
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



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3.2.5 Test Result of Peak Output Power

Test Mode :	Bluetooth 4.0 - LE	Temperature :	22~25 ℃
Test Engineer :	Osolemio Chang	Relative Humidity :	51~55%

	Francis	RF Power (dBm)		
Channel	Frequency (MHz)	GFSK	Max. Limits	Pass/Fail
	(IVITIZ)	1 Mbps	(dBm)	Pass/Faii
00	2402	2.29	30.00	Pass
19	2440	3.00	30.00	Pass
39	2480	2.45	30.00	Pass

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

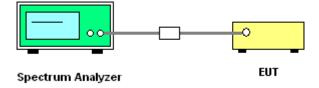
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz.
 Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



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3.3.5 Test Result of Power Spectral Density

Test Mode :	Bluetooth 4.0 - LE	Temperature :	22~25 ℃
Test Engineer :	Osolemio Chang	Relative Humidity :	51~55%

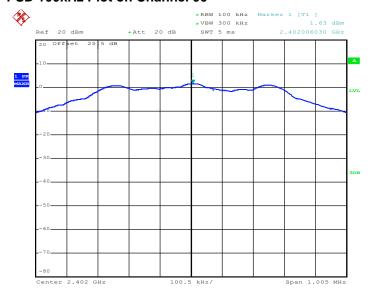
Channal	Frequency	Power Density		Max. Limits	Dana/Fail
Channel	(MHz)	PSD/100kHz (dBm)	PSD/3kHz (dBm)	(dBm/3kHz)	Pass/Fail
00	2402	1.630	-13.220	8	Pass
19	2440	2.380	-12.550	8	Pass
39	2480	1.570	-13.310	8	Pass

Note:

- 1. Measured power density (dBm) has offset with cable loss.
- 2. The Measured power density (dBm)/ 100kHz is reference level and used as 20dBc down for Conducted Band Edges and Conducted Spurious Emission limit line.

3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 00



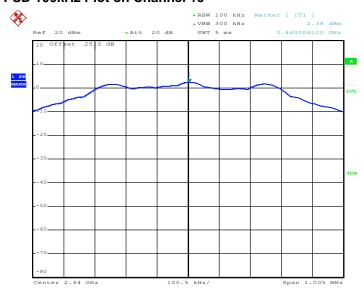
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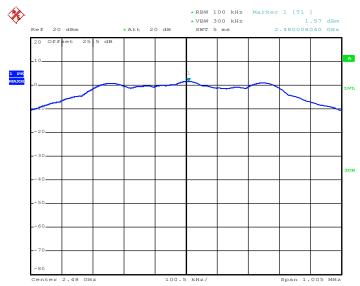
Report No.: FR4D0212B

PSD 100kHz Plot on Channel 19



Date: 11.DEC.2014 01:14:16

PSD 100kHz Plot on Channel 39



Date: 11.DEC.2014 01:18:15

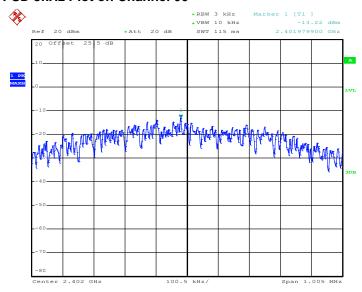
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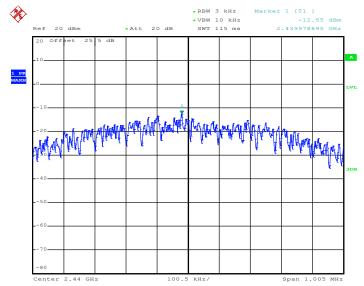
3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 00



Date: 11.DEC.2014 01:10:23

PSD 3kHz Plot on Channel 19



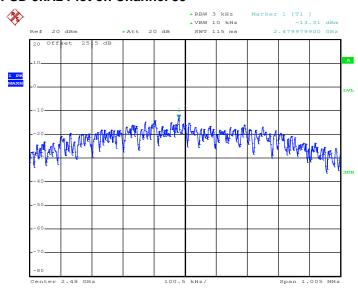
Date: 11.DEC.2014 01:13:47

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PSD 3kHz Plot on Channel 39



Date: 11.DEC.2014 01:17:49

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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

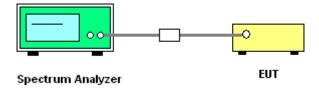
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



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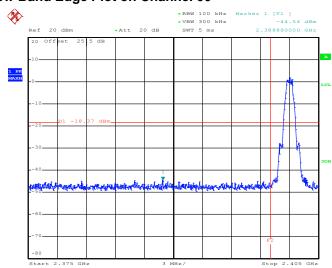
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3.4.5 Test Result of Conducted Band Edges

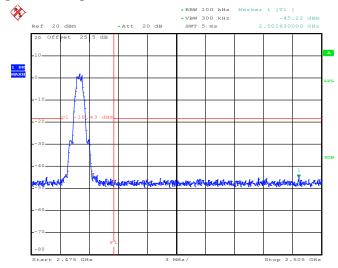
Test Mode :	Bluetooth 4.0 - LE	Temperature :	22~25 ℃
Test Channel :	00 and 39	Relative Humidity :	51~55%
		Test Engineer :	Osolemio Chang

Low Band Edge Plot on Channel 00



Date: 11.DEC.2014 01:11:00

High Band Edge Plot on Channel 39



Date: 11.DEC.2014 01:18:49

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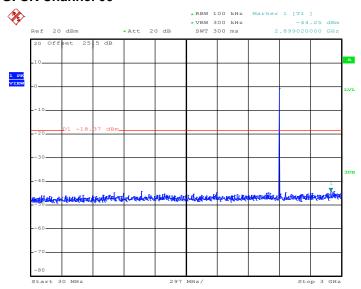
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: RBWESY10I1 Page Number : 24 of 43
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3.4.6 Test Result of Conducted Spurious Emission

Test Mode :	Bluetooth 4.0 - LE	Temperature :	22~25 ℃
Test Channel :	00	Relative Humidity :	51~55%
		Test Engineer :	Osolemio Chang

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



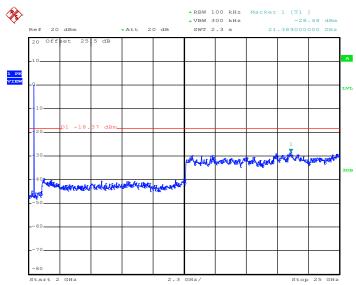
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Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



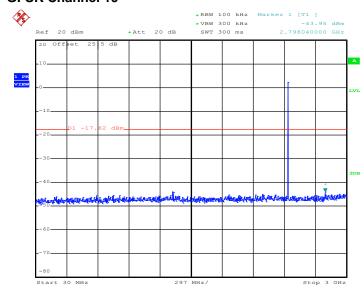
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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: RBWESY10I1 Page Number : 26 of 43
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Test Mode :	Bluetooth 4.0 - LE	Temperature :	22~25 ℃
Test Channel :	19	Relative Humidity :	51~55%
		Test Engineer :	Osolemio Chang

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19

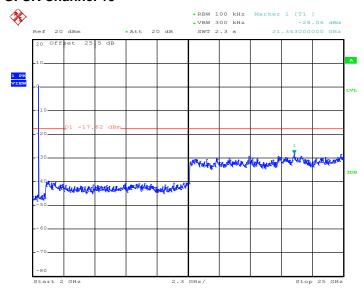


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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: RBWESY10I1 Page Number : 27 of 43
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Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



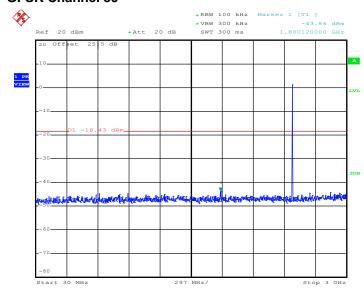
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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: RBWESY10I1 Page Number : 28 of 43
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Test Mode :	Bluetooth 4.0 - LE	Temperature :	22~25℃
Test Channel :	39	Relative Humidity :	51~55%
		Test Engineer :	Osolemio Chang

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39

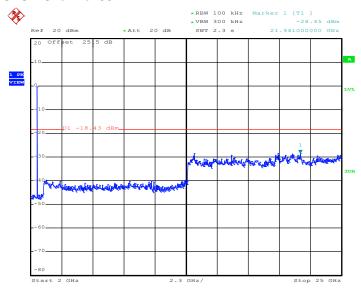


Date: 11.DEC.2014 01:19:11

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Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 11.DEC.2014 01:19:29

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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

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

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

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3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. 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. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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- The EUT was placed on a turntable with 0.8 meter for frequency< 1GHz and 1.5 meter for frequency> 1GHz above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(µs)	1/T(kHz)	VBW Setting
Bluetooth 4.0 - LE	62.42	392	2.55	3kHz

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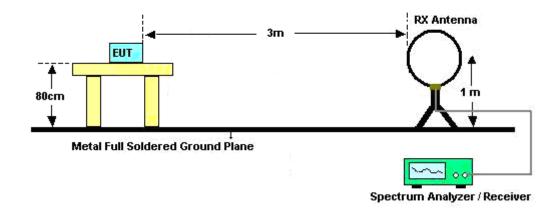
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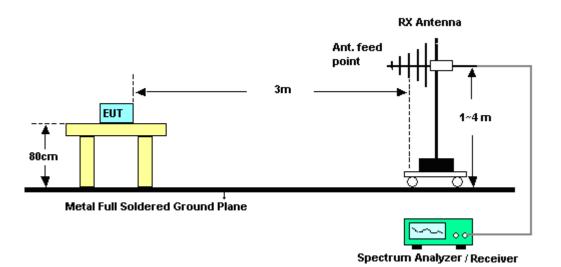
FCC ID : RBWESY10I1 Report Template No.: BU5-FR15CBT4.0 Version 1.0

3.5.4 Test Setup

For radiated emissions below 30MHz



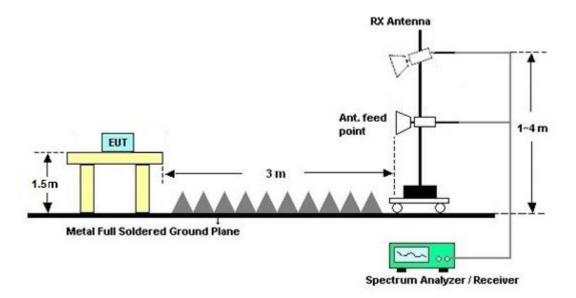
For radiated emissions from 30MHz to 1GHz



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For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

3.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A.

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3.6 AC Conducted Emission Measurement

3.6.1 Limit 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 (MHz)	Conducted limit (dBµV)		
Frequency of emission (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.

3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

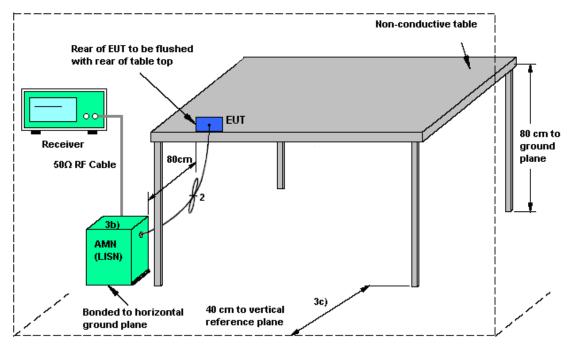
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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 (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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3.6.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

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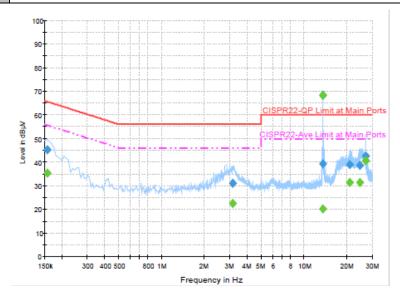
Report No.: FR4D0212B

3.6.5 **Test Result of AC Conducted Emission**

<Original Test Result>

Test Mode :	Mode 1	Temperature :	21~23 ℃
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN Link + Bluetooth Link	+ MSR On (Micro USE	3 at bottom side) + RJ-45 (Load)

+ MPEG4 + RFID On (Micro USB at right side) + TC + Adapter 2



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	45.3	Off	L1	19.5	20.3	65.6
3.142000	31.1	Off	L1	19.6	24.9	56.0
13.478000	39.2	Off	L1	19.9	20.8	60.0
13.558000	68.4	Off	L1	19.9	-8.4	60.0
20.750000	39.0	Off	L1	19.9	21.0	60.0
24.582000	38.8	Off	L1	19.9	21.2	60.0
27.126000	42.6	Off	L1	20.0	17.4	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	35.3	Off	L1	19.5	20.3	55.6
3.142000	22.3	Off	L1	19.6	23.7	46.0
13.478000	20.3	Off	L1	19.9	29.7	50.0
13.558000	68.2	Off	L1	19.9	-18.2	50.0
20.750000	31.3	Off	L1	19.9	18.7	50.0
24.582000	31.2	Off	L1	19.9	18.8	50.0
27.126000	40.5	Off	L1	20.0	9.5	50.0

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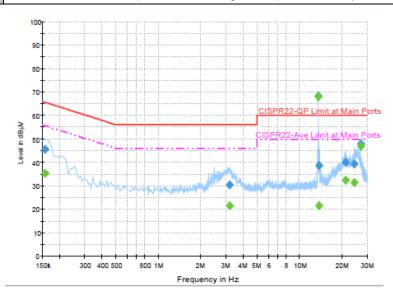
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<Original Test Result>

Test Mode :	Mode 1	Temperature :	21~23 ℃						
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%						
Test Voltage :	120Vac / 60Hz	Phase :	Neutral						
F C T	WLAN Link + Bluetooth Link	/LAN Link + Bluetooth Link + MSR On (Micro USB at bottom side) + RJ-45 (Loa							

Function Type : | WLAN Link + Bluetooth Link + MSR On (Micro USB at bottom side) + RJ-45 (Load) + MPEG4 + RFID On (Micro USB at right side) + TC + Adapter 2



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	45.5	Off	N	19.5	20.1	65.6
3.182000	30.3	Off	N	19.6	25.7	56.0
13.558000	68.3	Off	N	19.9	-8.3	60.0
13.630000	38.5	Off	N	19.9	21.5	60.0
21.070000	39.8	Off	N	20.0	20.2	60.0
24.390000	39.4	Off	N	20.1	20.6	60.0
27.118000	47.8	Off	N	20.1	12.2	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	35.4	Off	N	19.5	20.2	55.6
3.182000	21.3	Off	N	19.6	24.7	46.0
13.558000	68.1	Off	N	19.9	-18.1	50.0
13.630000	21.5	Off	N	19.9	28.5	50.0
21.070000	32.3	Off	N	20.0	17.7	50.0
24.390000	31.2	Off	N	20.1	18.8	50.0
27.118000	46.8	Off	N	20.1	3.2	50.0

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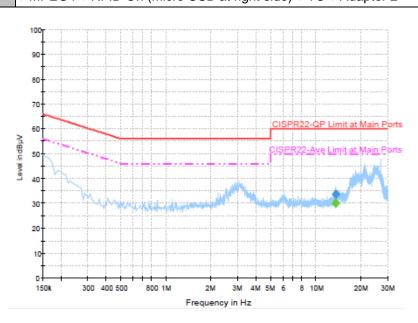
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< Terminal Test Result>

Test Mode :	Mode 1	Temperature :	21~23 ℃				
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
	MALANTICAL A DI AGRACIA I CAL	MI ANTICLE DI STORINI L'OLE MODE CE (Micro 110D et le tres e 11e) e DI 45 (Lee					

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Function Type: WLAN Link + Bluetooth Link + MSR On (Micro USB at bottom side) + RJ-45 (Load) + MPEG4 + RFID On (Micro USB at right side) + TC + Adapter 2



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
13.558000	33.6	Off	L1	19.9	26.4	60.0

Final Result : Average

Frequency	Average	Average Filter Line	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	1 11101	Line	(dB)	(dB)	(dBµV)
13.558000	30.0	Off	L1	19.9	20.0	50.0

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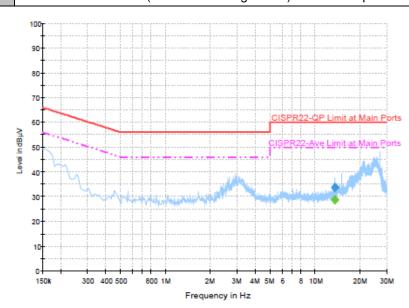
< Terminal Test Result>

Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Eric Jeng	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral

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WLAN Link + Bluetooth Link + MSR On (Micro USB at bottom side) + RJ-45 (Load) Function Type: + MPEG4 + RFID On (Micro USB at right side) + TC + Adapter 2



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
13.558000	33.7	Off	N	19.9	26.3	60.0

Final Result : Average

Frequency	Average	Filter Line	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	riitei	Line	(dB)	(dB)	(dBµV)
13.558000	28.9	Off	N	19.9	21.1	50.0

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3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 09, 2014	Dec. 11, 2014	Jun. 08, 2015	Conducted (TH02-HY)
Power Meter	Agilent	E4416A	GB41292344	300MHz~40GHz	Jan. 28, 2014	Dec. 11, 2014	Jan. 27, 2015	Conducted (TH02-HY)
Power Sensor	Agilent	E9327A	US40441548	300MHz~40GHz	Jan. 28, 2014	Dec. 11, 2014	Jan. 27, 2015	Conducted (TH02-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9 kHz~7 GHz	Aug. 30, 2014	Dec. 24, 2014~ Dec. 25, 2014	Aug. 29, 2015	Radiation (03CH07-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV30	101749	10Hz ~ 30GHz	Feb. 10, 2014	Dec. 24, 2014~ Dec. 25, 2014	Feb. 09, 2015	Radiation (03CH07-HY)
Loop Antenna	R&S	HFH2-Z2	100315	9 kHz~30 MHz	Jul. 28, 2014	Dec. 24, 2014~ Dec. 25, 2014	Jul. 27, 2015	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Sep. 27, 2014	Dec. 24, 2014~ Dec. 25, 2014	Sep. 26, 2015	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 19, 2014	Dec. 24, 2014~ Dec. 25, 2014	Aug. 18, 2015	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA91702 51	18GHz~40GHz	Oct. 02, 2014	Dec. 24, 2014~ Dec. 25, 2014	Oct. 01, 2015	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10 MHz ~ 1000MHz	Mar. 17, 2014	Dec. 24, 2014~ Dec. 25, 2014	Mar. 16, 2015	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1 GHz~26.5 GHz	Oct. 21, 2014	Dec. 24, 2014~ Dec. 25, 2014	Oct. 20, 2015	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	DC~18 GHz	Jul. 07, 2014	Dec. 24, 2014~ Dec. 25, 2014	Jul. 06, 2015	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	DC~18 GHz	Apr. 21, 2014	Dec. 24, 2014~ Dec. 25, 2014	Apr. 20, 2015	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	Dec. 24, 2014~ Dec. 25, 2014	N/A	Radiation (03CH07-HY)
Antenna Mast	ChainTek	ChainTek 3000	N/A	N/A	N/A	Dec. 24, 2014~ Dec. 25, 2014	N/A	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Dec. 01, 2014	Dec. 22, 2014	Nov. 30, 2015	Conduction (CO05-HY)
LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 08, 2014	Dec. 22, 2014	Dec. 07, 2015	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 02, 2014	Dec. 22, 2014	Dec. 01, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 22, 2014	N/A	Conduction (CO05-HY)

SPORTON INTERNATIONAL INC.

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.26	
of 95% (U = 2Uc(y))	2.20	

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

Measuring Uncertainty for a Level of Confidence	4.50	
of 95% (U = 2Uc(y))		

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