

Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 1 of 30

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

Product Name: Integrity Mobile Charging Cradle

Brand Name: MobileHelp

Model Name: MCC-02

Model Different: N/A

FCC ID: VDQMCC-02

Report No.: ER/2011/B0002

Issue Date: Nov. 23, 2011

§15.231 **Rule Part:**

Prepared by: **Daviscomms (S) Pte. Ltd**

Blk 70 Ubi Crescent #01-07. Ubi Techpark.

Singapore 408570

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan.



Note: This report shall not be reproduced except in full, without the written approval of SGS Taiwan Ltd. This document may be altered or revised by SGS Taiwan Ltd. personnel only, and shall be noted in the revision section of the document.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Taiwan Ltd.No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路134號 台灣檢驗科技股份有限公司t (886-2) 2299-3279 f (886-2) 2298-0488

www.tw.sgs.com



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 2 of 30

VERIFICATION OF COMPLIANCE

Applicant: Daviscomms (S) Pte. Ltd

Blk 70 Ubi Crescent #01-07. Ubi Techpark. Singapore 408570

Product Name: Integrity Mobile Charging Cradle

Brand Name: MobileHelp

FCC ID: VDQMCC-02

Model No.: MCC-02

Model Difference: N/A

File Number: ER/2011/B0002

Date of test: Nov. 04, 2011 ~ Nov. 22, 2011

Date of EUT Received: Nov. 04, 2011

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.231.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Jay. Lin.	Date:	Nov.23, 2011	
Prepared By:	Jay Lin / Engineer Gigi yeh	Date:	Nov.23, 2011	
Approved By:	Gigi Yeh / Clerk Jim Ch any Jim Chang / Supervisor	Date:	Nov.23, 2011	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 3 of 30

Version

Version No.	Date	Description
00	Nov.23, 2011	Initial creation of document

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

6 Taiwan Ltd. No. 134, Wu Kung Road, Wuku Indus<mark>r</mark>ial Zone, Taipei County, Taiwan /台北縣五股工業區五工路**134**號



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 4 of 30

Table of Contents

1.	GENERAL INFORMATION	6
1.1	PRODUCT DESCRIPTION	6
1.2	RELATED SUBMITTAL(S) / GRANT (S)	7
1.3	TEST METHODOLOGY	7
1.4	TEST FACILITY	7
1.5	SPECIAL ACCESSORIES	7
1.6	EQUIPMENT MODIFICATIONS	7
2.	SYSTEM TEST CONFIGURATION	8
2.1	EUT CONFIGURATION	8
2.2	EUT Exercise	8
2.3	TEST PROCEDURE	8
2.4	LIMITATION	9
2.5	CONFIGURATION OF TESTED SYSTEM	11
3.	SUMMARY OF TEST RESULTS	12
4.	DESCRIPTION OF TEST MODES	12
5.	CONDUCTED EMISSIONS TEST (NOT APPLY IN THE REPORT)	13
5.1	Measurement Procedure:	13
5.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	13
5.3	MEASUREMENT EQUIPMENT USED:	13
5.4	MEASUREMENT RESULT:	13
6.	RADIATED EMISSION TEST	16
6.1	MEASUREMENT PROCEDURE	16
6.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	16
6.3	MEASUREMENT EQUIPMENT USED:	17
FIELI	D STRENGTH CALCULATION	17
6.5	MEASUREMENT RESULT	18
7.	20DB OCCUPIED BANDWIDTH	22
7.1	MEASUREMENT PROCEDURE	22
7.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	22
7.3	MEASUREMENT EQUIPMENT USED:	22
74	Measurement Results	22

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan/台北縣五股工業區五工路134號



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 5 of 30

8.	DUTY CYCLE MEASUREMENT	24
8.1	MEASUREMENT PROCEDURE	24
8.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	24
8.3	MEASUREMENT EQUIPMENT USED:	24
8.4	MEASUREMENT RESULTS:	
9.	RELEASE TIME MEASUREMENT:	27
9.1	MEASUREMENT PROCEDURE	27
9.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	27
9.3	MEASUREMENT EQUIPMENT USED:	27
MEA	SUREMENT RESULTS	
10.	PERIODIC TRANSMISSIONS TIME MEASUREMENT:	29
10.1	MEASUREMENT PROCEDURE	29
10.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	29
10.3	MEASUREMENT EQUIPMENT USED:	29
10.4.	MEASUREMENT RESULTS	29

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 6 of 30

1. GENERAL INFORMATION

1.1 Product Description

Product Name	Integrity Mobile Charging Cradle
Brand Name	MobileHelp
Model Name	MCC-02
Model Difference:	N/A
Power Supply	12V from AC/DC adaptor, Model: OK-W05-1000, Supplier: OKEY

433.92MHz:

Operating Frequency	433.92 MHz
Transmit Power	< 82.03dBuV/m Max.
Modulation Technique	Pulse Modulation
Number of Channels	1 Channel
Release Time:	≤ 5 seconds (Manually operated)
Transmitting Time	≤ 2 seconds per hour (Periodic transmission)
Antenna Designation:	Non-User Replaceable (Fixed)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 7 of 30

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **VDQMCC-02** filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 8 of 30

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions (Not apply in the report)

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 9 of 30

2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range	Limits dB (uV)			
MHz	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Note

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability.

^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 10 of 30

(2) Radiated Emission

According to 15.231(b), the field strength of emissions from Intentional Radiators operated under this section shall not exceed the following:

Fundamental	Field Strength of		Field Strength of	
Frequency	Fundamental		Spurious	
(MHz)	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)
40.66 - 40.70	67.04	2,250	47	225
70 - 130	61.94	1,250	41.9	125
130 - 174	* 61.94 - 71.48	* 1,250 -3,750	* 41.9 – 51.48	* 125 to 375
174 - 260	71.48	3,750	51.48	375
260 - 470	* 71.48 - 81.94	* 3,750 -	* 51.48 - 54	* 375 to 1250
		12,500		
above 470	81.94	12,500	74	1250

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205
- 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of ξ 15.205, then the general radiated emission limits in ξ 15.209 apply.
- 5. For the band 130-174MHz, uV/m at 3meters = 56.81818(F) 6136.3636; For the band 260-470MHz uV/m at 3meters = 41.6667(F) - 7083.3333; Where F is the frequency in MHz.
- 6. 433.92MHz limit = 41.6667 * 433.92 7083.33333 = 10996.681 uV/m = 80.8 dBuV/m

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 11 of 30

2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

I	tem	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
	1.	N/A					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 **Issue Date: Nov. 23, 2011**

Page: 12 of 30

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	Compliant
§15.231	Radiated Emission	Compliant
§15.231(c)	20dB Bandwidth	Compliant
	Duty Cycle Test (Pulse	Compliant
	Modulation)	
§15.231(a)(1)	Release Time Measurement	Compliant

Description of test modes 4.

The EUT has been tested under engineering test mode condition. and the EUT staying in continuous transmitting mode. The Frequency 433.92 MHz is chosen for testing.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

i <mark>Taiwan Ltd.</mark>No.134, Wu Kung Road, Wuku Indus<mark>t</mark>rial Zone, Taipei County, Taiwan /台北縣五股工業區五工路**134**號

Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

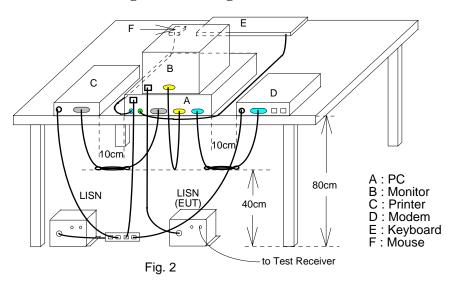
Page: 13 of 30

5. CONDUCTED EMISSIONS TEST (NOT APPLY IN THE REPORT)

5.1 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- **2.** Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- **3.** Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used:

Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
ТҮРЕ		NUMBER	NUMBER	CAL.		
EMI Test Receiver	R&S	ESCS30	828985/004	09/22/2011	09/23/2012	
LISN	Rolf-Heine	NNB-2/16Z	99012	03/31/2011	03/30/2012	
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/31/2011	03/30/2012	
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2010	11/27/2011	

5.4 Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Note: Refer to next page for measurement data and plots.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan/台北縣五股工業區五工路134號



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

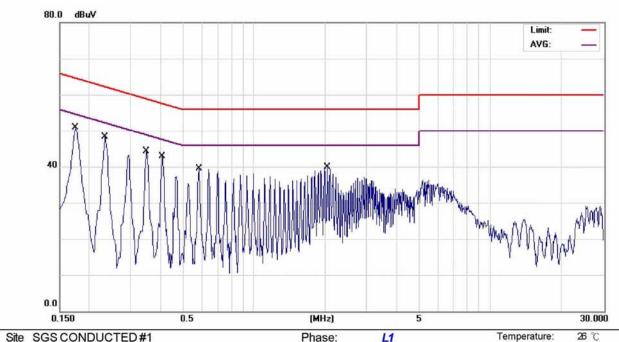
Page: 14 of 30

Humidity:

59%

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation			Test Date:	Nov. 18, 2011
Temperature:	25	Humidity:	59 %	Test By:	Jay



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Integrity Mobile Charging Cradle

M/N: MCC-02

Note: Operation mode

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment	
1	*	0.1740	50.82	0.12	50.94	64.77	-13.83	QP		
2		0.2340	48.18	0.12	48.30	62.31	-14.01	QP		
3		0.3500	44.23	0.12	44.35	58.96	-14.61	QP		
4		0.4100	42.79	0.12	42.91	57.65	-14.74	QP		
5		0.5860	39.44	0.12	39.56	56.00	-16.44	QP		
6		2.0460	39.67	0.15	39.82	56.00	-16.18	QP		

Power:

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

S Taiwan Ltd.No.134, Wu Kung Road, Wuku Indus<mark>i</mark>rial Zone, Taipei County, Taiwan /台北縣五股工業區五工路**134**號

L1 AC 120V/60Hz

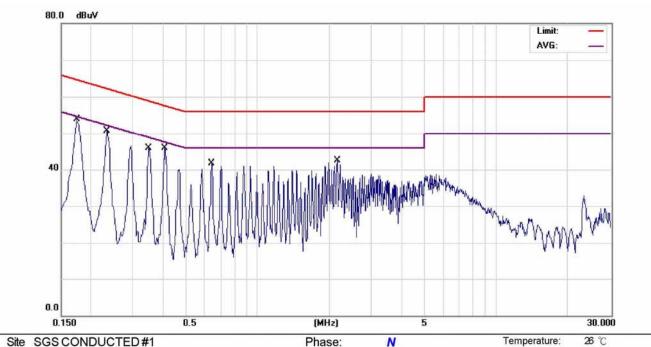


Report No: ER/2011/B0002 **Issue Date: Nov. 23, 2011**

Page: 15 of 30

Humidity:

59%



Power:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP) EUT: Integrity Mobile Charging Cradle

M/N: MCC-02

Note: Operation mode

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment	
1	*	0.1740	53.69	0.17	53.86	64.77	-10.91	QP		
2		0.2340	50.63	0.16	50.79	62.31	-11.52	QP		
3		0.3500	45.75	0.16	45.91	58.96	-13.05	QP		
4		0.4100	45.81	0.16	45.97	57.65	-11.68	QP		
5		0.6420	41.60	0.16	41.76	56.00	-14.24	QP		
6		2.1620	42.28	0.18	42.46	56.00	-13.54	QP		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

i <mark>Taiwan Ltd.</mark>No.134, Wu Kung Road, Wuku Indus<mark>t</mark>rial Zone, Taipei County, Taiwan /台北縣五股工業區五工路**134**號 台灣檢驗科技股份有限公司t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 16 of 30

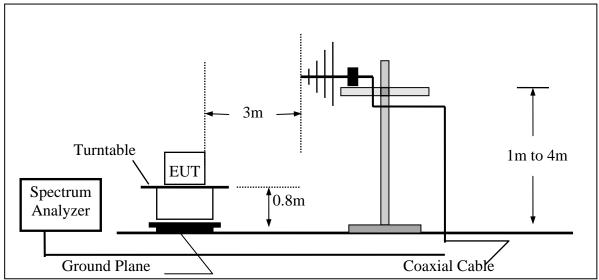
6. RADIATED EMISSION TEST

6.1 Measurement Procedure

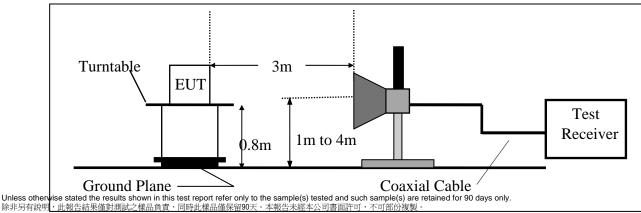
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Indus<mark>i</mark>rial Zone, Taipei County, Taiwan /台北縣五股工業區五工路**134**號



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 17 of 30

6.3 Measurement Equipment Used:

0.5 Weastrement Equipment Oscu.									
	9	66 Chamber							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012				
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/18/2011	11/19/2012				
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	01/22/2010	01/21/2012				
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011				
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012				
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012				
DC Block	Agilent	BLK-18	155452	01/05/2011	01/04/2012				
Turn Table	HD	DT420	N/A	N.C.R	N.C.R				
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R				
Controller	HD	HD100	N/A	N.C.R	N.C.R				
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012				
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012				
3m Site	SGS	966 chamber	N/A	07/15/2011	07/14/2012				

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Average Value = Peak Value + 20 Log (Ton/Tp) Pulse Modulation

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路134號 台灣檢驗科技股份有限公司t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 18 of 30

6.5 Measurement Result

Operation Band : Test Date :2011-11-18

Fundamental Frequency :433.92 Temp./Humi. :27 deg_C / 66 RH

Operation Mode :TX MAIN Engineer :Jay

EUT Pol. :E2 Measurement Antenna Pol. :VERTICAL

Actual $FS(dB\mu V/m) = SPA$. Reading level $(dB\mu V) + Factor(dB)$

 $Factor(dB) = Antenna Factor(dB\mu V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)$

Note: "F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	$dB\mu V/m$	dB
433.92	F	Average	86.17	-9.70	76.47	80.80	-4.33
433.92	F	Peak	91.73	-9.70	82.03	100.80	-18.77

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 19 of 30

Operation Band : Test Date :2011-11-18

Fundamental Frequency :433.92 Temp./Humi. :27 deg_C / 66 RH

Operation Mode :TX MAIN Engineer :Jay

EUT Pol. :E2 Measurement Antenna Pol. :HORIZONTAL

Actual $FS(dB\mu V/m) = SPA$. Reading level $(dB\mu V) + Factor(dB)$

 $Factor(dB) = Antenna \ Factor(dB\mu V/m) + Cable \ Loss(dB) - Pre_Amplifier \ Gain(dB)$

Note: "F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
433.92	F	Average	83.19	-9.70	73.49	80.80	-7.31
433.92	F	Peak	88.75	-9.70	79.05	100.80	-21.75

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 20 of 30

Operation Band : Test Date :2011-11-18

Fundamental Frequency :433.92 Temp./Humi. :27 deg_C / 66 RH

Operation Mode :TX Engineer :Jay

EUT Pol. :E2 Measurement Antenna Pol. :VERTICAL

Actual $FS(dB\mu V/m) = SPA$. Reading level $(dB\mu V) + Factor(dB)$

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note: "F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
34.85	S	Peak	40.33	-13.86	26.47	40.00	-13.53
150.28	S	Peak	37.26	-11.85	25.41	43.00	-17.59
248.25	S	Peak	37.51	-13.34	24.17	46.00	-21.83
542.16	S	Peak	41.85	-8.05	33.80	46.00	-12.20
759.44	S	Peak	39.20	-4.75	34.45	46.00	-11.55
867.84	Н	Peak	49.90	-2.70	47.20	60.80	-13.60
1301.76	Н	Peak	37.94	0.27	38.21	54.00	-15.79
1735.68							
2169.60	Н	Peak	37.31	4.55	41.86	54.00	-12.14
2603.52	Н	Peak	40.55	5.88	46.43	54.00	-7.57
3037.44	Н	Peak	36.77	6.72	43.49	54.00	-10.51
3471.36							
3905.28							
4339.20							

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 21 of 30

Operation Band : Test Date :2011-11-22

Fundamental Frequency :433.92 Temp./Humi. :27 deg_C / 66 RH

Operation Mode :TX Engineer :Jay

EUT Pol. :E2 Measurement Antenna Pol. :HORIZONTAL

Actual $FS(dB\mu V/m) = SPA$. Reading level $(dB\mu V) + Factor(dB)$

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

Note: "F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
325.85	S	Peak	46.00	-11.32	34.68	46.00	-11.32
542.16	S	Peak	43.05	-8.05	35.00	46.00	-11.00
650.80	S	Peak	42.63	-5.89	36.74	46.00	-9.26
759.44	S	Peak	41.80	-4.75	37.05	46.00	-8.95
867.84	Н	Peak	51.38	-2.70	48.68	60.80	-12.12
969.93	S	Peak	38.55	-1.28	37.27	54.00	-16.73
1301.76	Н	Peak	40.85	-0.29	40.56	54.00	-13.44
1735.68	Н	Peak	39.67	3.16	42.83	54.00	-11.17
2169.60	Н	Peak	40.80	4.04	44.84	54.00	-9.16
2603.52	Н	Peak	40.33	6.19	46.52	54.00	-7.48
3037.44	Н	Peak	37.88	7.04	44.92	54.00	-9.08
3471.36							
3905.28							
4339.20							

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 22 of 30

7. 20DB OCCUPIED BANDWIDTH

7.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10KHz, Span =500KHz.
- 4. Set SPA Max hold. Mark peak, -20dB.

7.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

7.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

7.4 Measurement Results

Refer to attached data chart.

The center frequency \mathbf{f}_c is 433.92MHz, according to the Rules, section 15.231(C), the Bandwidth of Center Frequency at-20dB should be calculated as following:

$$433.92 \times 0.0025 = 1.0848(MHz)$$

So, the Uper/Lower frequencies limit should be specified as:

$$f_{(U)} = f_c + \Delta f/2 = 433.92 + 0.5424 = 434.46(MHz)$$

$$f_{(L)} = f_c - \Delta f/2 = 433.92 - 0.5424 = 433.377 \text{ (MHz)}$$

Measurement Result:

-20dB bandwidth = -48.6kHz which within allowed frequency range.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

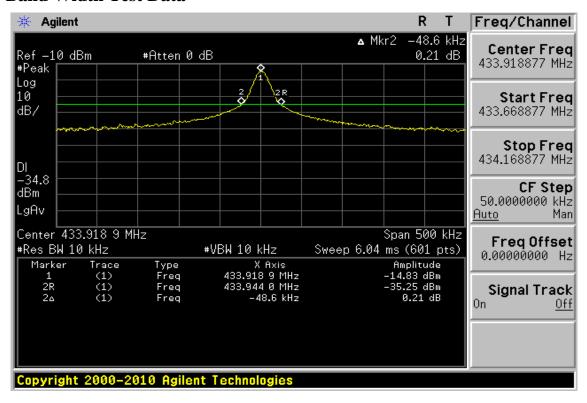
SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路134號



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 23 of 30

20dB Band Width Test Data



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

www.tw.sgs.com

SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Indus<mark>t</mark>rial Zone, Taipei County, Taiwan /台北縣五股工業區五工路**134**號

台灣檢驗科技股份有限公司t (886-2) 2299-3279 f (886-2) 2298-0488



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 24 of 30

8. DUTY CYCLE MEASUREMENT

8.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set ETU normal operating mode.
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 100KHz, Span =0 Hz. Adjacent sweep.
- 4. Set SPA View. Mark delta.

8.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

8.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

8.4 Measurement Results:

Ton = 1.65(ms)*22 + 0.8(ms)*21 = 53.1(ms) Tp> 100.8(ms), Average Correction Factory = 20log (Ton/Tp) =20log (53.1/100.8) = -5.56 dB

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_end_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability,

indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

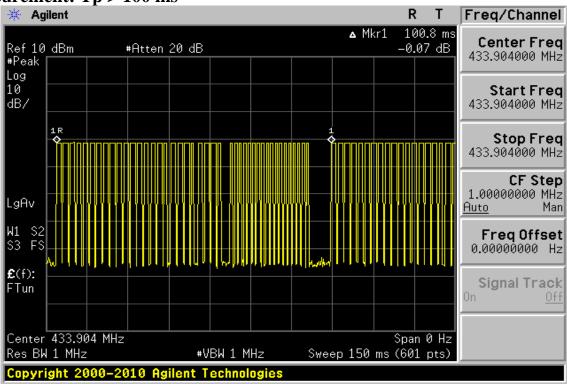
SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan / 台 北縣五股工業區五工路134號



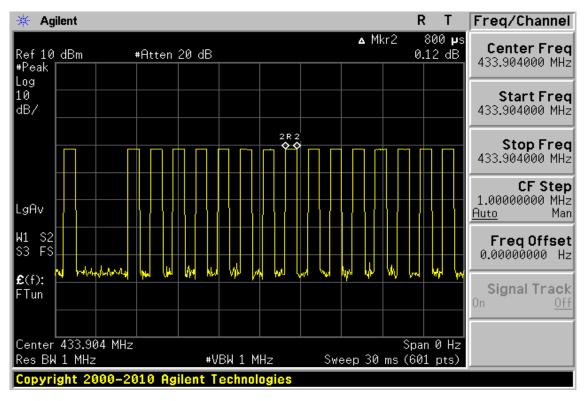
Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 25 of 30

Measurement: Tp > 100 ms



TO 1



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

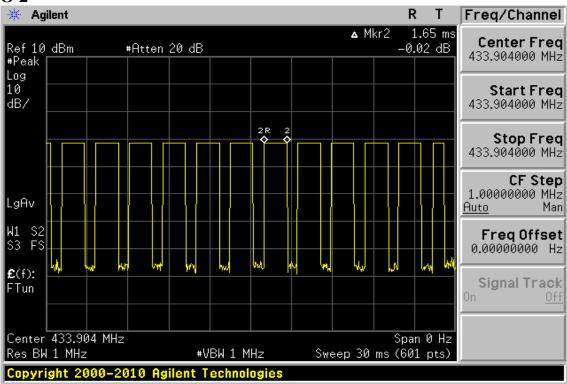
SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路134號



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 26 of 30

TO 2



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路134號



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 27 of 30

9. RELEASE TIME MEASUREMENT:

15.231 (a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

9.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 100 KHz, Span =0Hz. Sweep Time= 5s.
- 3. Set EUT as normal operation and press Transmitter bottom for 2 s,
- 4. Set SPA Max hold. Delta Mark.

9.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

9.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

Measurement Results

The release time less than 5 s.

Refer to attached data chart.

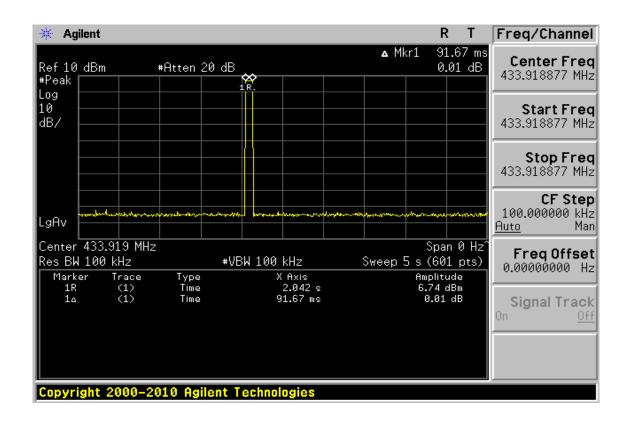
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 28 of 30



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五工路134號 台灣檢驗科技股份有限公司t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 29 of 30

10. PERIODIC TRANSMISSIONS TIME MEASUREMENT:

15.231 (a) (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

10.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 100 KHz, Span =0Hz. Sweep Time= 600/3s
- 3. Set EUT as normal operation,
- 4. Set SPA Max hold. Delta Mark.

10.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

10.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

10.4.Measurement Results

Ton time: 100ms Tperiod: 300s

3600/300 = 12 total cycle per hour

Total Ton time within a hour: 12 *100 ms = 1.2 s per hour

1.2s < 2s within a hour

Refer to attached data chart.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

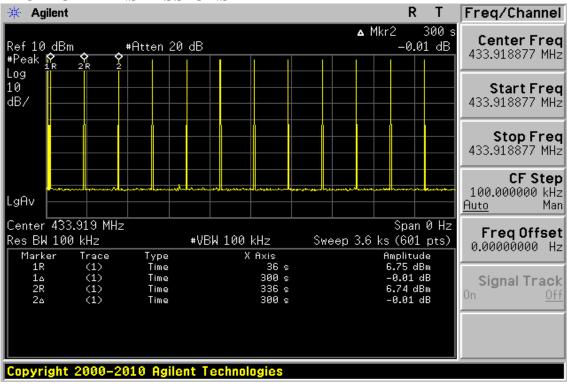
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for



Report No: ER/2011/B0002 Issue Date: Nov. 23, 2011

Page: 30 of 30

PERIODIC TRANSMISSIONS TIME



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for

SGS Taiwan Ltd.No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路134號

台灣檢驗科技股份有限公司t (886-2) 2299-3279 f (886-2) 2298-0488