

Report No. : FC331814

FCC Test Report

APPLICANT : PAX Technology Limited

EQUIPMENT : PINPAD

BRAND NAME : PAX
MODEL NAME : S300
MARKETING NAME : S300

FCC ID : V5PS300RF

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Mar. 18, 2013 and completely tested on Apr. 25, 2013. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

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

Reviewed by:

Jones Tsai / Manager



SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

TEL: +86-755- 3320-2398 FCC ID: V5PS300RF

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC331814	Rev. 01	Initial issue of report	May 14, 2013

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	0.32 dB at
					7.940 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	4.50 dB at
					93.050 MHz

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1. General Description

1.1. Applicant

PAX Technology Limited

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

1.2. Manufacturer

PAX Computer Technology (Shenzhen) Co., Ltd.

4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

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1.3. Feature of Equipment Under Test

	Product Feature
Equipment	PINPAD
Brand Name	PAX
Model Name	S300
Marketing Name	S300
FCC ID	V5PS300RF
EUT supports Radios application	NFC
HW Version	S300-XXX-XX3-XXXX
SW Version	Prolin2.3
EUT Stage	Identical Prototype

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

1.4. Product Specification of Equipment Under Test

Product Specification subjective to this standard					
Tx Frequency NFC : 13.56 MHz					
Rx Frequency Range	NFC : 13.56 MHz				
Antenna Type	NFC : PCB Antenna				
Type of Modulation	NFC: ASK				

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1.5. Test Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.						
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.						
	TEL: +86-755- 3320-2398						
Test Site No.	Sporton Site No. FCC/IC Registration No.						
lest site NO.	CO01-SZ	03CH01-SZ	831040/4086F-1				

1.6. Applied Standards

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

- · FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003

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

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2. Test Configuration of Equipment Under Test

2.1. **Test Mode**

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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

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

		Test C	ondition
Item	EUT Configuration	EMI	EMI
		AC	RE
1.	Operating Mode (EUT with adapter)		\boxtimes
2.	Charging Mode (EUT with PC)		\boxtimes

Abbreviations:

EMI AC: AC conducted emissions EMI RE: EUT radiated emissions

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Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	Mode 1: LAN Link + Ethernet port + COM port Cable + Adapter <fig.1> Mode 2: Magnetic Card + DB9 Communication Cable + Adapter<fig.2> Mode 3: COM port + PS2 Cable + DB9 Communication Cable + PC<fig.3> Mode 4: USB Link + USB host + Adapter<fig.4> Mode 5: IC Card + Ethernet port + COM port Cable + Adapter<fig.5> Mode 6: RF Card + Ethernet port + COM port Cable + Adapter<fig.6></fig.6></fig.5></fig.4></fig.3></fig.2></fig.1>
Radiated Emissions	1/2	Mode 1: LAN Link + Ethernet port + COM port Cable + Adapter <fig.1> Mode 2: Magnetic Card + DB9 Communication Cable + Adapter<fig.2> Mode 3: COM port + PS2 Cable + DB9 Communication Cable + PC<fig.3> Mode 4: USB Link + USB host + Adapter<fig.4> Mode 5: IC Card + DB9 Communication Cable + Adapter<fig.7> Mode 6: RF Card + DB9 Communication Cable + Adapter<fig.8></fig.8></fig.7></fig.4></fig.3></fig.2></fig.1>

Remark:

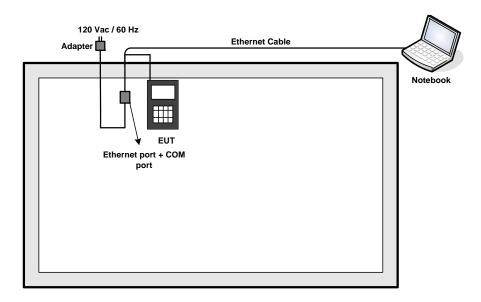
- 1. The worst case of AC Conducted Emission is mode 1; only the test data of this mode was reported.
- 2. The worst case of Radiated Emissions is mode 6; only the test data of this mode was reported.

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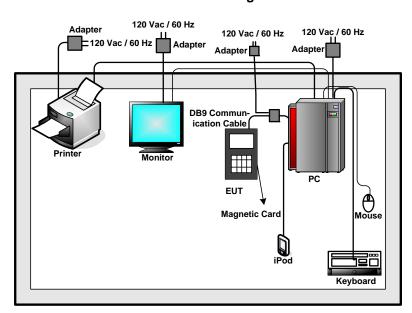


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2.2. Connection Diagram of Test System



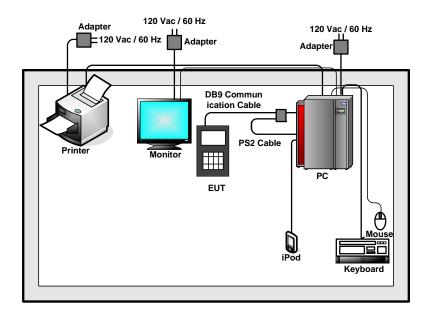
<Fig.1>



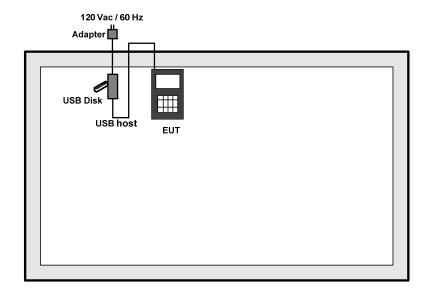
<Fig.2>

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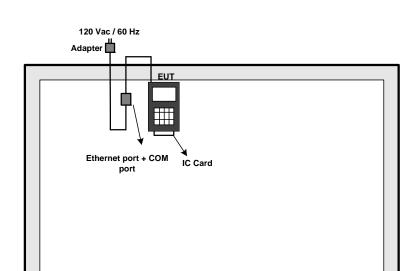
<Fig.3>



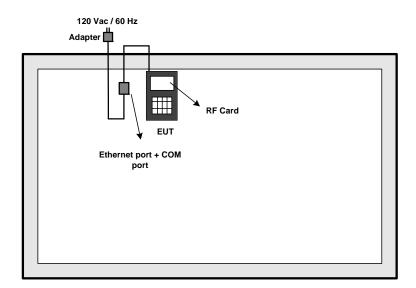
<Fig.4>

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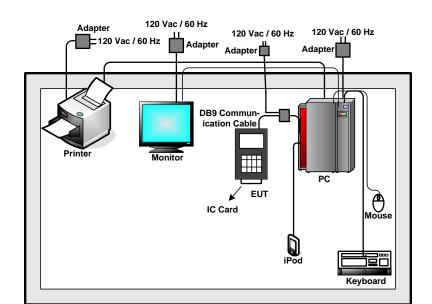
<Fig.5>



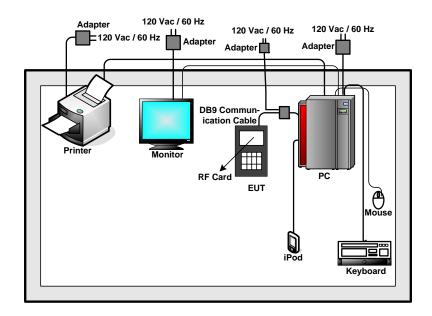
<Fig.6>

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<Fig.7>



<Fig.8>

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2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	VOSTRO1440	FCC DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
2.	PC	DELL	OPTIPLEX 390	FCC DoC	N/A	Unshielded, 1.8 m
3.	Monitor	DELL	IN1940MWB	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
4.	(USB) Mouse	DELL	MS111-L	FCC DoC	Shielded, 1.5 m	N/A
5.	(USB) Keyboard	DELL	KB212-B	FCC DoC	Shielded, 1.5 m	N/A
6.	iPod	Apple	MC525 ZP/A	FCC DoC	Unshielded, 1.0 m	N/A
7.	Printer	SAMSUNG	ML-1610	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
8.	USB disk	Yuzhan	N/A	N/A	N/A	N/A
9	Adapter	HuntKey	HKA00505010-2P	N/A	N/A	N/A
10	Ethernet port + COM port Cable	N/A	N/A	N/A	N/A	N/A
11	USB host	N/A	N/A	N/A	N/A	N/A

2.4. Test Software

- 1. EUT executed IC Card function.
- 2. EUT executed Magnetic Card function.
- 3. EUT executed RF Card function.
- 4. EUT connect to PC via COM port cables for data transfer.
- 5. EUT executed USB Link function.
- 6. EUT executed LAN Link function.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

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

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

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

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

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

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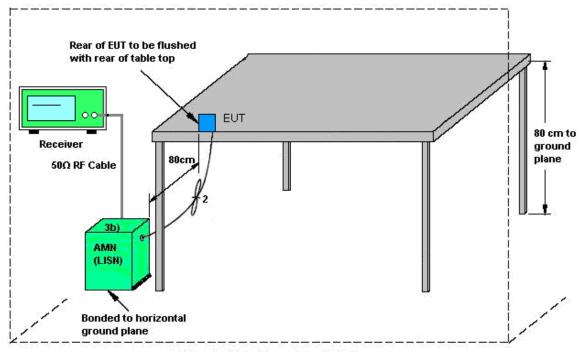
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3.1.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1			Tem	nperatu	re:	23~2	24°C
Test Engineer : Leo Liao				Rela	ative H	umidity :	48~4	19%
Test Voltage :	120Vac /	60Hz		Pha	ise :		Line	
Function Type :	LAN Link	+ Ethe	rnet por	t + COM	l port Ca	able + Ada	apter	
Remark :	All emissi	ions no	t reporte	ed here a	are more	e than 10	dB be	low the prescribed limit.
100L	evel (dBuV)	-				Date	: 2013-0	4-09 Time: 17:48:53
90								
2000								
80								
70								500.455.00
60		-			3 0	0 9 0	1161000	FCC 15B_QP
50	-					10 1	2 4 2	4 FCC 15B_AVG
40	MAI	Y M M A	AA	, all b, the		to the bank of the		PER MANULA II JAMBAN BANGAN
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10		4 1			3 0			
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ĭ.1	5 .2	.5	1		2 ency (MHz)	5	10	20 30
Site Conditio	: CO01-S2 n: FCC 15E		SN_L_2000	0601 LIN	E			
Mode	: Mode 1		Ng/TUTO.			B124862		
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∇	dB	dBu∇	dBu∇	dB	dB	-
1	0.54	24.61	-21.39	46.00	14.50	0.02	10.09	Average
2	0.54	39.71	-16.29	56.00	29.60	0.02	10.09	QP
3					13.80			Average
4 5				56.00			10.10	
6				46.00	29.10		10.10	Average
7			-21.57	46.00	14.31	0.02		Average
8						0.02		
9						0.07		
10	5.25	47.76	-12.24	60.00	37.51	0.07	10.18	QP
11						0.10		
12						0.10		
13						0.11		
14						0.11		
15 *						0.12		
16						0.12		
17 18						0.16		
19						0.20		
20						0.20		
							No.	

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FCC Test Report

Test Mode :	Mode 1	Temperature :	23~24 ℃
Гest Engineer :	Leo Liao	Relative Humidity :	48~49%
Гest Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LAN Link + Ethernet port + 0	COM port Cable + Ada	oter
Remark :	All emissions not reported h	ere are more than 10 c	IB below the prescribed limit
100 Le	evel (dBuV)	Date:	2013-04-09 Time: 17:48:53
90			
80			
70			FCC 4TD OD
60		10	FCC 15B_QP
50	M M M M M A A A A A A A A A A A A A A A		
30		Allynd Control of the	The state of the s
20	" " 1 3 5 7	4 1 1 1	
10			
	5 .2 .5 1	2 5	40 20 20
0_4	5 .2 .5 1	Frequency (MHz)	10 20 30

	Freq	Level	100	Limit Line	Read Level	LISN Factor	Cable	Remark
-	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
21	10.07	43.25	-6.75	50.00	32.70	0.26	10.29	Average
22	10.07	52.55	-7.45	60.00	42.00	0.26	10.29	QP
23	10.73	41.06	-8.94	50.00	30.50	0.26	10.30	Average
24	10.73	49.66	-10.34	60.00	39.10	0.26	10.30	QP
25	12.00	39.90	-10.10	50.00	29.31	0.25	10.34	Average
26	12.00	45.90	-14.10	60.00	35.31	0.25	10.34	QP
27	13.41	38.04	-11.96	50.00	27.40	0.25	10.39	Average
28	13 41	46 44	-13 56	60 00	35 80	0 25	10 39	OP

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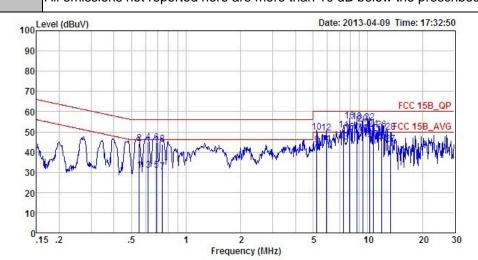
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Test Mode :	Mode 1			Tem	peratu	re:	23~2	4 ℃	
Test Engineer :	Leo Liao			Rela	ative H	umidity :	48~49%		
Test Voltage :	120Vac / 6	60Hz		Pha	Phase: Neutral				
Function Type : LAN Link + Ethernet port +					port Ca	able + Ada	apter		
Remark :	All emission	ns no	t reporte	d here a	re more	e than 10	dB bel	ow the prescribed	limit.
100L	evel (dBuV)					Date	: 2013-04	1-09 Time: 17:32:50	
90								-	
80		4 4 1			4		6 (0)		
70		-							
60						0 9 0	1,618,62	FCC 15B_QP	
50	-	- 0	4.60			1012	14	2FCC 15B_AVG	
40	A A A	MAM	MARINA	Marchanyton a	My My	White The Park of	יוטשויי .	TITUMANALIPATYANAN	
30	A. Par	M N N	34 5 77717	Λ,				hil. itt 1	
20									
10		40			3	-0,-4			
⁰ .1	5 .2	.5	1	Freque	2 ency (MHz)	5	10	20 30	
Site	: C001-SZ			rreque	ency (MHZ)				
	n: FCC 15B	QP LIS	N_N_2000	601 NEUI	TRAL				
Mode	: Mode 1								
		3200327		Limit	Read		Cable	Community of the Commun	
	Freq 1	Level	Limit	Line	Level	Factor	Loss	Remark	
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.55	31.10	-14.90	46.00	20.99	0.02	10.09	Average	
2			-11.60				10.09		
3 4			-15.19 -10.89				10.10	Average	
5			-15.18					Average	
6			-11.28				10.10		
7				46.00		0.02	10.10	Average	
8						0.02			
9						0.09		The state of the s	
10						0.09			
11						0.10			
12						0.10			
13 14						0.14			
15 *						0.14			
16						0.16			
17						0.20			
18						0.20			
19						0.24			
20						0.24			

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Test Mode :	Mode 1	Temperature :	23~24 ℃					
Test Engineer :	Leo Liao	Relative Humidity :	48~49%					
Test Voltage :	120Vac / 60Hz	Phase :	Neutral					
Function Type :	LAN Link + Ethernet port + COM port Cable + Adapter							
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.							



Site : CO01-SZ Condition: FCC 15B_QP LISN_N_2000601 NEUTRAL

Mode : Mode 1

			0	+3-34	D1	T T CAT	0-1-1-	
	Freq	Level			0.000	LISN Factor	Cable Loss	Remark
-	MHz	dBu∇	dB	dBuV	dBuV	dB	dB	
21	10.29	49.19	-0.81	50.00	38.60	0.30	10.29	Average
22	10.29	54.79	-5.21	60.00	44.20	0.30	10.29	QP
23	10.79	46.21	-3.79	50.00	35.61	0.30	10.30	Average
24	10.79	51.31	-8.69	60.00	40.71	0.30	10.30	QP
25	11.93	45.26	-4.74	50.00	34.60	0.32	10.34	Average
26	11.93	51.06	-8.94	60.00	40.40	0.32	10.34	QP
27	13.41	43.82	-6.18	50.00	33.10	0.33	10.39	Average
28	13.41	49.92	-10.08	60.00	39.20	0.33	10.39	OP

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

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

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

3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

3.2.3. Test Procedures

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

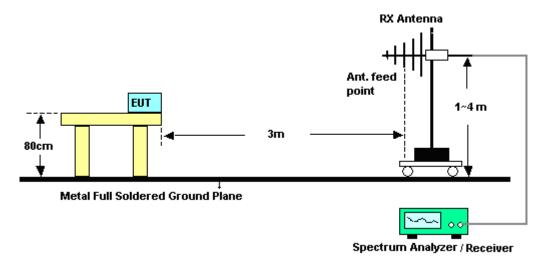
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3.2.4. Test Setup of Radiated Emission

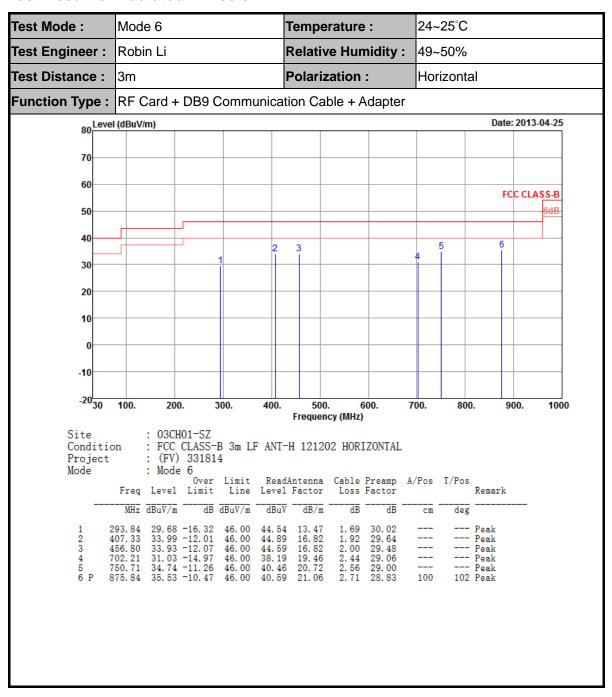
For radiated emissions from 30MHz to 1GHz



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3.2.5. Test Result of Radiated Emission

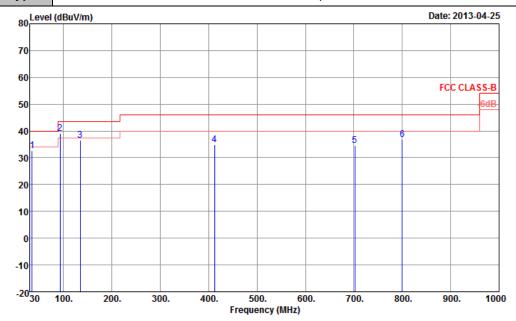


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24~25°C Test Mode: Mode 6 Temperature : Test Engineer: Robin Li **Relative Humidity:** 49~50% Test Distance : 3m Polarization: Vertical

Function Type: RF Card + DB9 Communication Cable + Adapter



Site

: 03CH01-SZ : FCC CLASS-B 3m LF ANT-V 121202 VERTICAL : (FV) 331814 Condition

Project

Mode : Mode 6

540	Freq	Level		Limit Line							Remark
	MHz	$\overline{\tt dBuV/m}$	<u>dB</u>	$\overline{\tt dBuV/m}$	dBuV	dB/m	dB	<u>dB</u>	cm	deg	
1	34.85	32. 52	-7.48	40.00	49. 17	13.00	0.91	30.56			Peak
2 P	93.05	39.00	-4.50	43.50	58.31	10.20	1.14	30.65	100	255	Peak
3	134.76	36.48	-7.02	43.50	53.69	12.10	1.24	30.55			Peak
4	412.18	34.93	-11.07	46.00	45.77	16.86	1.93	29.63			Peak
5	702. 21	34.49	-11.51	46.00	41.65	19.46	2.44				
6	800.18	36.84	-9.16	46.00	42.65	20.50	2.62	28.93			Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC LISN	ETS-LINDGR EN	3816/2SH	00103912	0.1MHz~108MH z	Feb. 28, 2013	Apr. 09, 2013	Feb. 27, 2014	Conduction (CO01-SZ)
AC LISN	ETS-LINDGR EN	3816/2SH	00103892	0.1MHz~108MH z	Feb. 28, 2013	Apr. 09, 2013	Feb. 27, 2014	Conduction (CO01-SZ)
ESCIO TEST Receiver	R&S	1142.8007. 03	100724	9K-3GHz	Mar. 08, 2013	Apr. 09, 2013	Mar. 07, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1N/A	N/A	Oct. 12, 2012	Apr. 09, 2013	Oct. 11, 2013	Conduction (CO01-SZ)
ESCI TEST Receiver	R&S	ESCI	100724	9K-3GHz	Mar. 28, 2013	Apr. 25, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30Mhz~2GHz	Nov. 03, 2012	Apr. 25, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9K-3000MHz GAIN 30db	Mar. 28, 2013	Apr. 25, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)

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5. Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54
Confidence of 95% (U = 20c(y))	

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

Measuring Uncertainty for a Level of	
Confidence of 95%	4.72
(U = 2Uc(y))	

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP331814 as below.

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