Test Report

Product Name	：	Tablet: Wireless Tablet X860/X861;
		Dongle: Wireless Tablet Receiver X860/X861
Model No.	：	Tablet: RCK-T07, RCK-T07S;
		Dongle: RCK-T07R, RCK-T07RS
FCC ID.	：	DoC

Applicant	：	WALTOP International Corp.
Address	：	3F, No.6-8 Du-Sing RD., Hsin-Chu Science Park,
		Hsin-Chu City 30078, Taiwan, R.O.C.

Date of Receipt	：	2010/12/30
Issued Date	：	2011/02/09
Report No.	：	111085R-RFUSP37V02
Report Version	：	V1.0

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)

The following equipment:

Product Name	:	Tablet: Wireless Tablet X860/X861;
		Dongle: Wireless Tablet Receiver X860/X861
Trade Name	:	LUIDIA, WALTOP
Model Number	:	Tablet: RCK-T07, RCK-T07S;
		Dongle: RCK-T07R, RCK-T07RS
Company Name	:	WALTOP International Corp.

It's herewith confirmed to comply with the requirements of FCC Part 15 Rules. (Class B)
Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

The result of electromagnetic emission has been evaluated by QuieTek EMC laboratory (NVLAP Lab. Code : 200347-0) and showed in the test report.
(Report No. : QTK-111085R-RFUSP37V02)

It is understood that each unit marketed is identical to the device as tested, and
Any changes to the device that could adversely affect the emission
Characteristics will require retest.

The following importer / manufacturer is responsible for this declaration:

Company Name _____

Company Address _____

Telephone _____ Facsimile : _____

Person is responsible for marking this declaration:

_____ _____
Name (Full name) Position / Title

_____ _____
Date Legal Signature

Test Report Certification

Issued Date : 2011/02/09
Report No. : 111085R-RFUSP37V02

QuieTek

Product Name	:	Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861
Applicant	:	WALTOP International Corp.
Address	:	3F, No.6-8 Du-Sing RD., Hsin-Chu Science Park, Hsin-Chu City 30078, Taiwan, R.O.C.
Manufacturer	:	WALTOP International Corp.
Model No.	:	Tablet: RCK-T07, RCK-T07S; Dongle: RCK-T07R, RCK-T07RS
FCC ID.	:	DoC
EUT Voltage	:	AC 120 V / 60 Hz
Trade Name	:	LUIDIA, WALTOP
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart B: 2009
Test Result	:	Complied

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Documented By : Sandy Chuang

(Sandy Chuang / Engineering Adm. Specialist)

Tested By : JuBo Shen

(JuBo Shen / Engineer)

Approved By : Roy Wang

(Roy Wang / Manager)

TABLE OF CONTENTS

Reference : Laboratory of License

1. General Information

1.1. EUT Description

Product Name	Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861
Trade Name	WALTOP, LUIDIA
Model No.	Tablet: RCK-T07, RCK-T07S; Dongle: RCK-T07R, RCK-T07RS
Frequency Range	2402~2479MHz
Channel Number	78
Type of Modulation	Direct Sequence Spread Spectrum (DSSS)
Antenna Gain	-0.51dBi (Tablet) -3.67dBi (Dongle)
Channel Control	Auto
Antenna Type	Soldered on PCB

Component	
USB Cable	Shielded, 1.5m, two ferrite cores bonded.

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01	2402 MHz	Channel 21	2422 MHz	Channel 41	2442 MHz	Channel 61	2462 MHz
Channel 02	2403 MHz	Channel 22	2423 MHz	Channel 42	2443 MHz	Channel 62	2463 MHz
Channel 03	2404 MHz	Channel 23	2424 MHz	Channel 43	2444 MHz	Channel 63	2464 MHz
Channel 04	2405 MHz	Channel 24	2425 MHz	Channel 44	2445 MHz	Channel 64	2465 MHz
Channel 05	2406 MHz	Channel 25	2426 MHz	Channel 45	2446 MHz	Channel 65	2466 MHz
Channel 06	2407 MHz	Channel 26	2427 MHz	Channel 46	2447 MHz	Channel 66	2467 MHz
Channel 07	2408 MHz	Channel 27	2428 MHz	Channel 47	2448 MHz	Channel 67	2468 MHz
Channel 08	2409 MHz	Channel 28	2429 MHz	Channel 48	2449 MHz	Channel 68	2469 MHz
Channel 09	2410 MHz	Channel 29	2430 MHz	Channel 49	2450 MHz	Channel 69	2470 MHz
Channel 10	2411 MHz	Channel 30	2431 MHz	Channel 50	2451 MHz	Channel 70	2471 MHz
Channel 11	2412 MHz	Channel 31	2432 MHz	Channel 51	2452 MHz	Channel 71	2472 MHz
Channel 12	2413 MHz	Channel 32	2433 MHz	Channel 52	2453 MHz	Channel 72	2473 MHz
Channel 13	2414 MHz	Channel 33	2434 MHz	Channel 53	2454 MHz	Channel 73	2474 MHz
Channel 14	2415 MHz	Channel 34	2435 MHz	Channel 54	2455 MHz	Channel 74	2475 MHz
Channel 15	2416 MHz	Channel 35	2436 MHz	Channel 55	2456 MHz	Channel 75	2476 MHz
Channel 16	2417 MHz	Channel 36	2437 MHz	Channel 56	2457 MHz	Channel 76	2477 MHz
Channel 17	2418 MHz	Channel 37	2438 MHz	Channel 57	2458 MHz	Channel 77	2478 MHz
Channel 18	2419 MHz	Channel 38	2439 MHz	Channel 58	2459 MHz	Channel 78	2479 MHz
Channel 19	2420 MHz	Channel 39	2440 MHz	Channel 59	2460 MHz		
Channel 20	2421 MHz	Channel 40	2441 MHz	Channel 60	2461 MHz		

Note:

1. This device is a Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861 included a 2.4GHz receiving function, and 2.4GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart B for 2.4GHz Receiver
3. Regards to the frequent band operation; three channels were selected to perform the test, then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function for the 2.4GHz transmitting was measured and made a test report that the report number is 111085R-RFUSP42V01, certified under FCC ID: Tablet: UBBRCKT07, Dongle: UBBRCKT07R

1.2. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	
EMI	Mode 1: Receive (Tablet) Mode 2: Receive (Dongle)
Final Test Mode	
RX	Mode 1: Receive (Tablet) Mode 2: Receive (Dongle)

1.3. Tested System Details

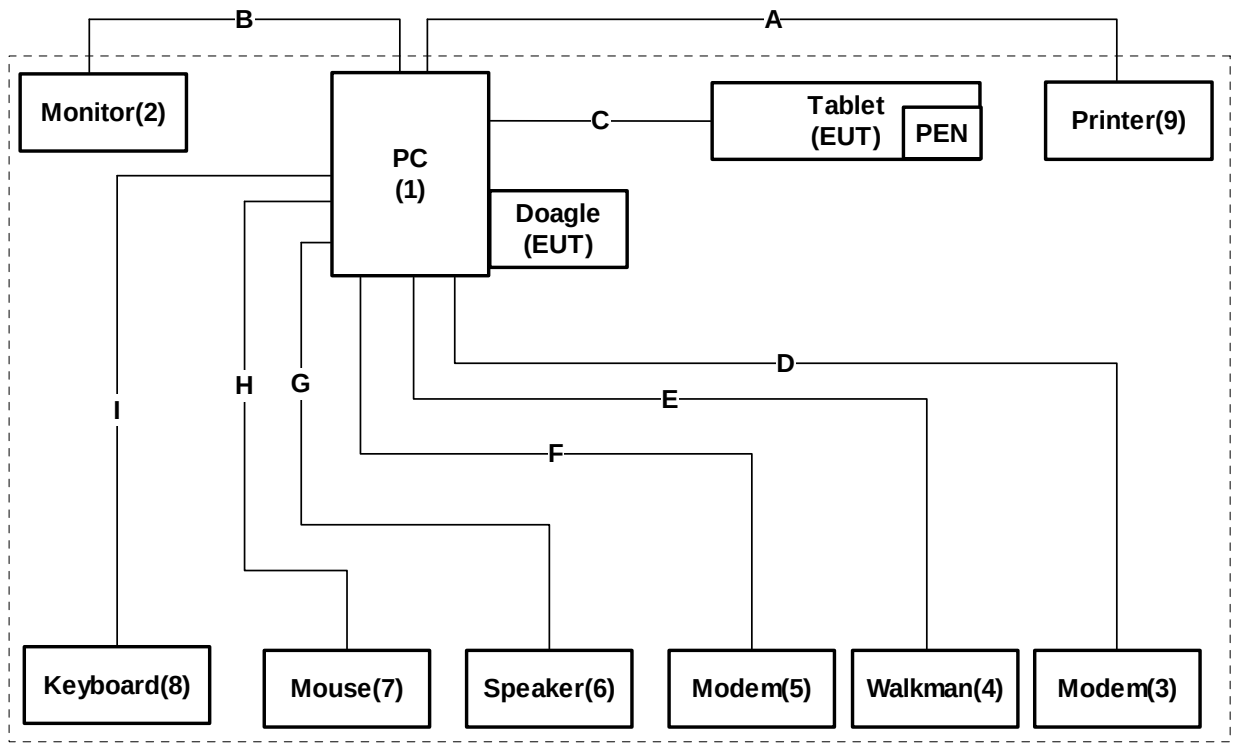
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Test Mode		Mode 1: Receive (Tablet)				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	PC	HP	DTPC27	SG21200950	DoC	Non-shielded, 1.8m
2	Monitor	CHI MEI	A170E1-09	3UC120955SA1249	DoC	Non-shielded, 1.8m
3	Modem	ACEEX	DM-1414	0102027543	DoC	Non-shielded, 1.6m
4	Walkman	AIWA	US-J202	I20201	DoC	--
5	Modem	ACEEX	DM-2814	960018054	DoC	Non-shielded, 1.6m
6	Speaker	Polk Audio	205	N/A	DoC	--
7	Mouse	Logitech	M-SBF83	HCA52200288	DoC	--
8	Keyboard	ACER	6311-TW2C	N/A	DoC	--
9	Printer	HP	C2642A	MY75L1D2XN	DoC	Non-shielded, 0.7m
10	PEN	Electromagnetic induction pen	M3A-020	N/A	DoC	--
Test Mode		Mode 2: Receive (Dongle)				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	PC	HP	DTPC27	SG21200950	DoC	Non-shielded, 1.8m
2	Monitor	CHI MEI	A170E1-09	3UC120955SA1249	DoC	Non-shielded, 1.8m
3	Modem	ACEEX	DM-1414	0102027543	DoC	Non-shielded, 1.6m
4	Walkman	AIWA	US-J202	I20201	DoC	--
5	Modem	ACEEX	DM-2814	960018054	DoC	Non-shielded, 1.6m
6	Speaker	Polk Audio	205	N/A	DoC	--
7	Mouse	Logitech	M-SBF83	HCA52200184	DoC	--
8	Mouse	Logitech	M-SBF83	HCA52200288	DoC	--
9	Keyboard	ACER	6311-TW2C	N/A	DoC	--
10	Printer	HP	C2642A	MY75L1D2XN	DoC	Non-shielded, 0.7m

1.4. Configuration of tested System

Test Mode	Mode 1: Receive (Tablet)

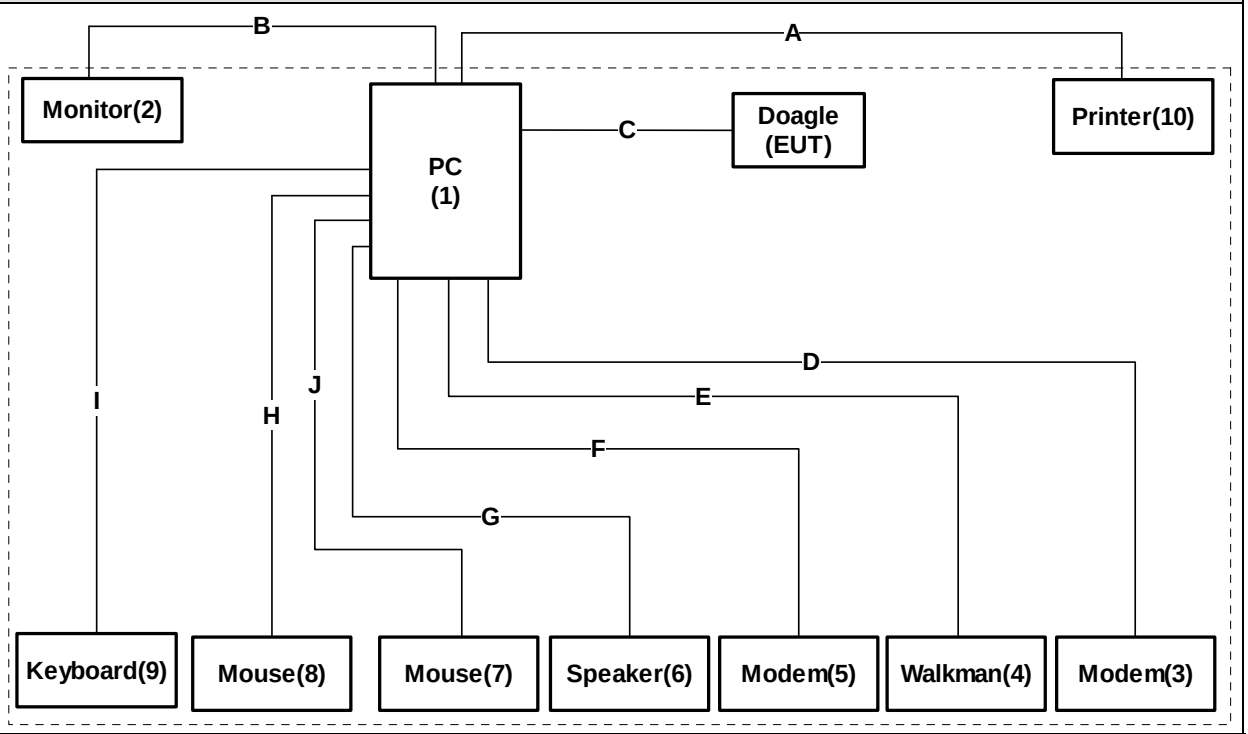
Connection Diagram



Signal Cable Type		Signal cable Description
A	Printer Cable	Shielded, 1.2m
B	VGA Cable	Shielded, 1.8m, two ferrite cores bonded.
C	USB Cable	Shielded, 1.5m, two ferrite cores bonded.
D	Modem Cable	Shielded, 1.5m
E	Walkman Cable	Non-Shielded, 1.6m
F	Modem Cable	Shielded, 1.5m
G	Speaker Cable	Non-Shielded, 1.2m
H	Mouse Cable	Shielded, 1.8m
I	Keyboard Cable	Shielded, 1.5m

Test Mode	Mode 2: Receive (Dongle)

Connection Diagram



Signal Cable Type		Signal cable Description
A	Printer Cable	Shielded, 1.2m
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C	USB Cable	Shielded, 1.5m, two ferrite cores bonded.
D	Modem Cable	Shielded, 1.5m
E	Walkman Cable	Non-Shielded, 1.6m
F	Modem Cable	Shielded, 1.5m
G	Speaker Cable	Non-Shielded, 1.2m
H	Mouse Cable	Shielded, 1.8m
I	Keyboard Cable	Shielded, 1.5m
J	Mouse Cable	Shielded, 1.0m

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4
2	Turn on the power of all equipment.
3	Notebook PC reads data from disk.
4	Data will be receiving through EUT.
5	The receiving status will be shown on the monitor.
6	Repeat the above procedure (4) to (5)

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 B 15.107 Conducted Emission	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 B 15.109 Radiated Emission	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description: September 27, 2010 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520

Accredited by TAF
Accreditation Number: 1313
Effective through: December 27, 2013

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2011

Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Conducted Emission

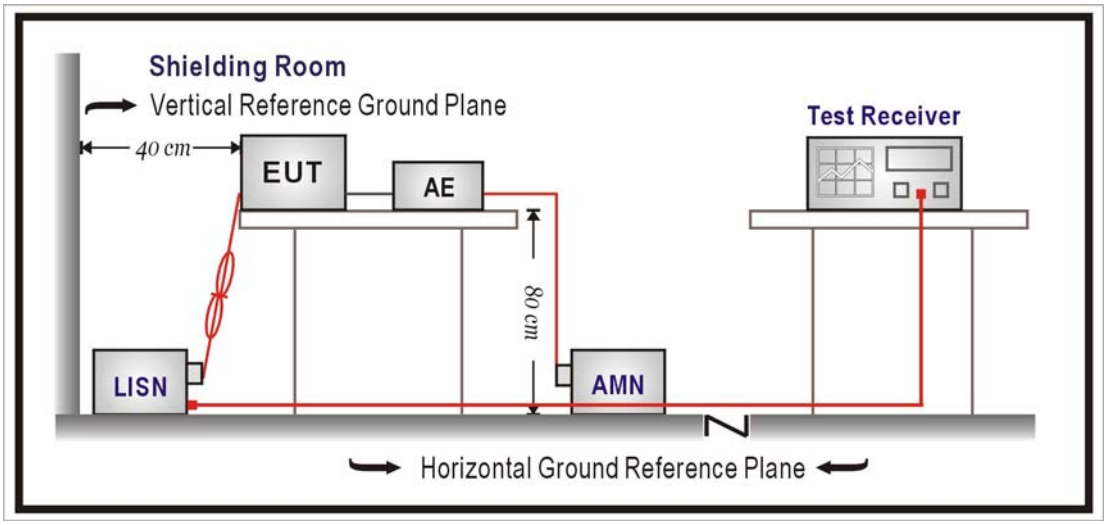
2.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/018	Sep., 2006	
2	Artificial Mains Network	R & S	ENV4200/848411/10	Feb., 2007	Peripheral
3	LISN	R & S	ESH3-Z5/825562/002	Feb., 2007	EUT
4	Pulse Limiter	R & S	ESH3-Z2/357.8810.52	Feb., 2007	
5	No.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart B Paragraph 15.107 Limits (dBuV)				
Frequency MHz	Class A		Class B	
	QP	AV	QP	AV
0.15 - 0.50	79	66	66-56	56-46
0.50 - 5.0	73	60	56	46
5.0 - 30	73	60	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)
Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Specification

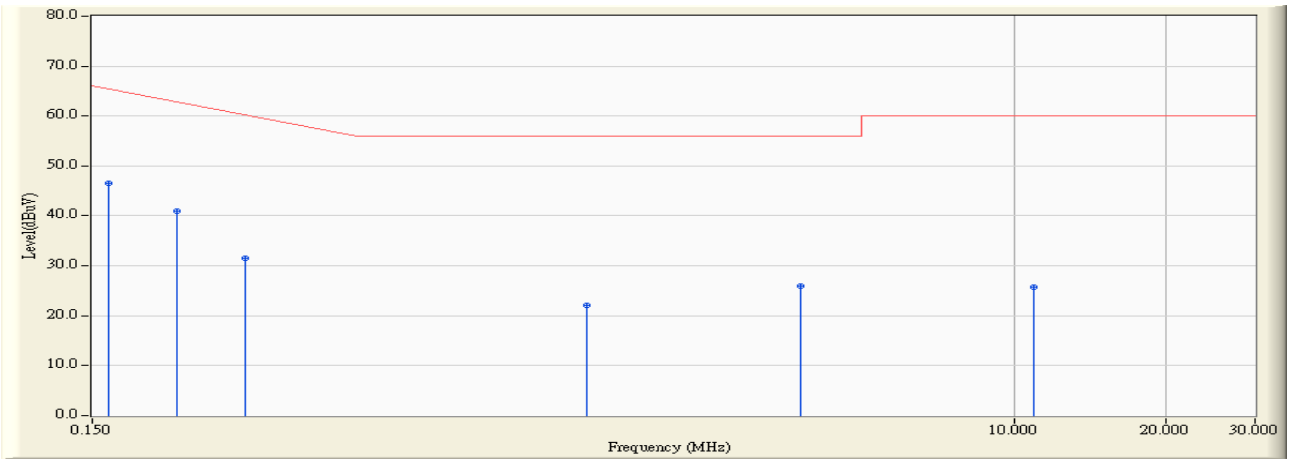
According to FCC CFR Title 47 Part 15 Subpart B: 2009

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : QuieTek Shielding Room2	Time : 2007/04/14 - 19:50
Limit : CISPR_B_00M_QP	Margin : 0
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Receive (Tablet)

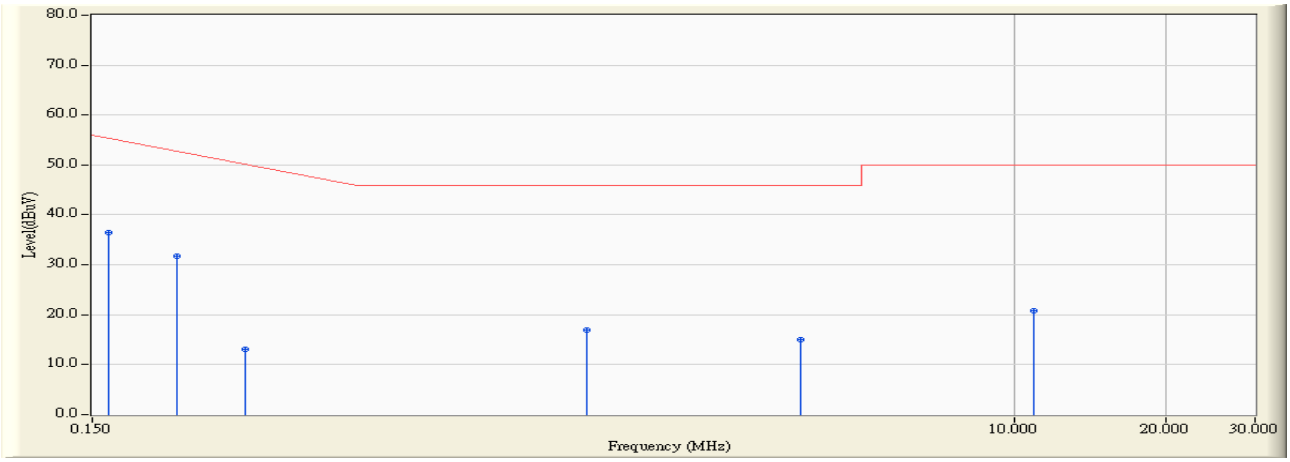


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	0.141	46.500	46.641	-19.016	65.657	QUASIPEAK
2		0.221	0.160	40.790	40.950	-23.021	63.971	QUASIPEAK
3		0.302	0.178	31.260	31.438	-30.219	61.657	QUASIPEAK
4		1.427	0.300	21.830	22.130	-33.870	56.000	QUASIPEAK
5		3.782	0.430	25.610	26.040	-29.960	56.000	QUASIPEAK
6		10.971	0.750	24.970	25.720	-34.280	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/04/14 - 19:50
Limit : CISPR_B_00M_ AV	Margin : 0
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Receive (Tablet)

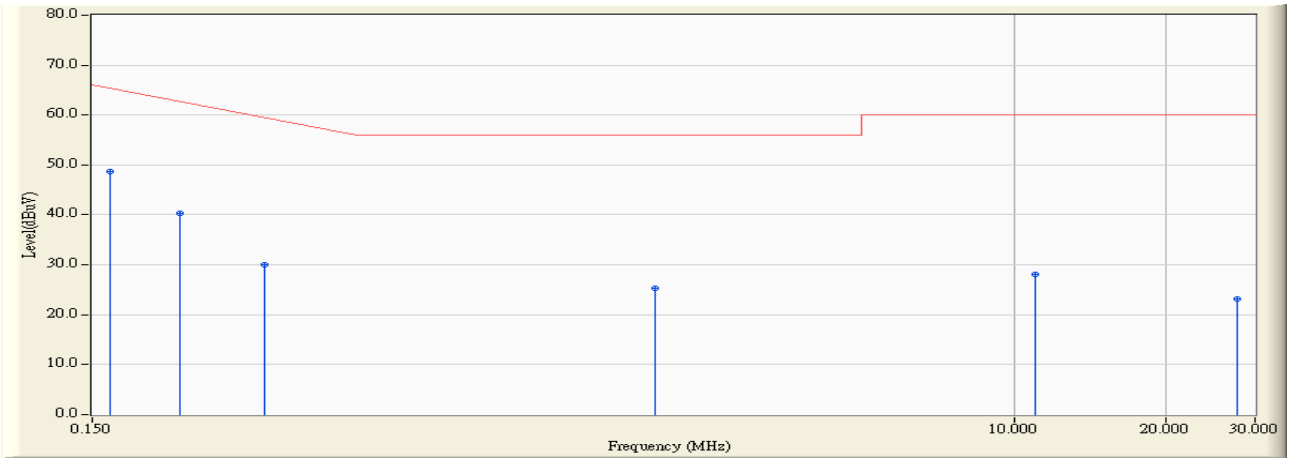


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	0.141	36.390	36.531	-19.126	55.657	AVERAGE
2		0.221	0.160	31.490	31.650	-22.321	53.971	AVERAGE
3		0.302	0.178	12.850	13.028	-38.629	51.657	AVERAGE
4		1.427	0.300	16.570	16.870	-29.130	46.000	AVERAGE
5		3.782	0.430	14.480	14.910	-31.090	46.000	AVERAGE
6		10.971	0.750	19.960	20.710	-29.290	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/04/14 - 19:54
Limit : CISPR_B_00M_QP	Margin : 0
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Receive (Tablet)

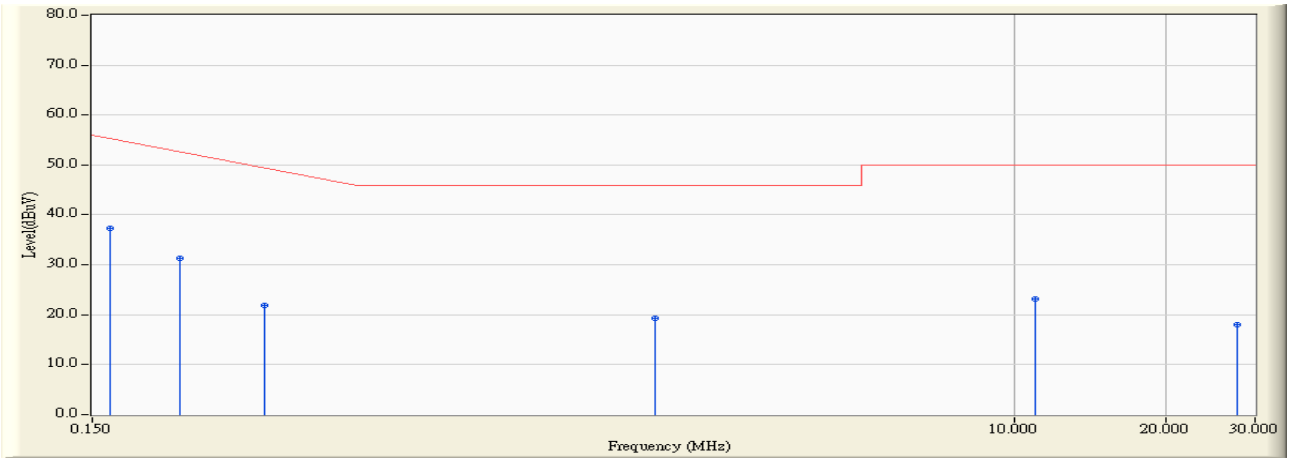


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.163	0.141	48.570	48.711	-16.918	65.629	QUASIPEAK
2		0.223	0.160	40.090	40.250	-23.664	63.914	QUASIPEAK
3		0.328	0.186	29.820	30.006	-30.908	60.914	QUASIPEAK
4		1.950	0.379	24.960	25.339	-30.661	56.000	QUASIPEAK
5		11.030	0.670	27.520	28.190	-31.810	60.000	QUASIPEAK
6		27.696	0.950	22.170	23.120	-36.880	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/04/14 - 19:54
Limit : CISPR_B_00M_AV	Margin : 0
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Receive (Tablet)

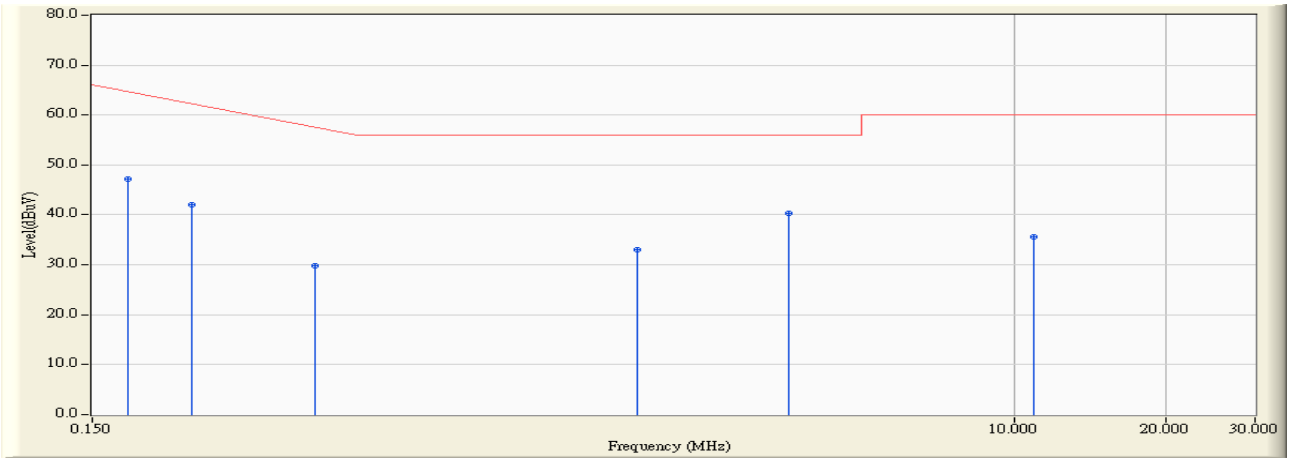


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.163	0.141	37.280	37.421	-18.208	55.629	AVERAGE
2		0.223	0.160	31.130	31.290	-22.624	53.914	AVERAGE
3		0.328	0.186	21.630	21.816	-29.098	50.914	AVERAGE
4		1.950	0.379	18.970	19.349	-26.651	46.000	AVERAGE
5		11.030	0.670	22.490	23.160	-26.840	50.000	AVERAGE
6		27.696	0.950	17.120	18.070	-31.930	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/04/14 - 20:08
Limit : CISPR_B_00M_QP	Margin : 0
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Receive (Dongle)

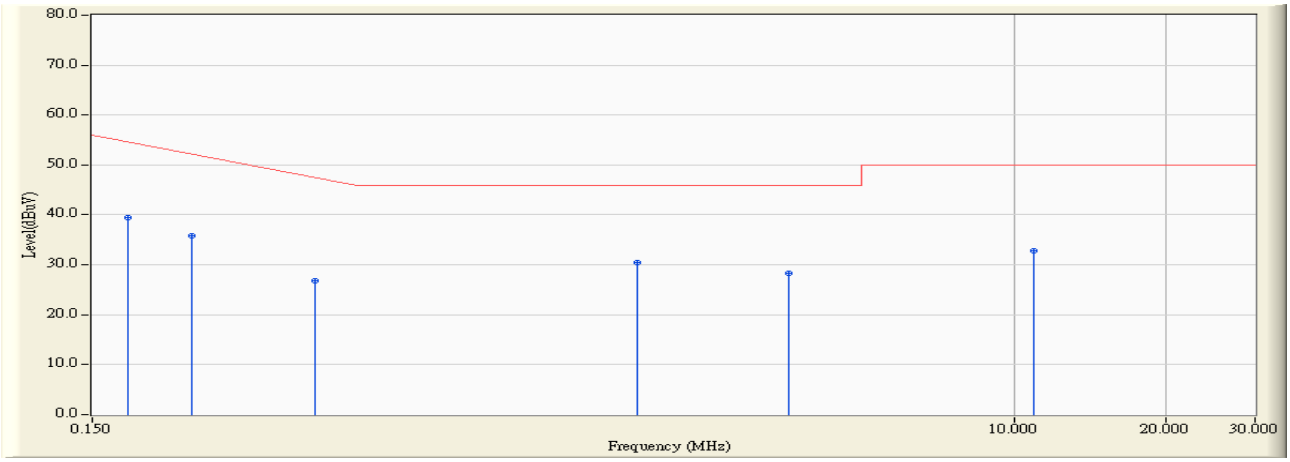


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.176	0.146	47.090	47.236	-18.021	65.257	QUASIPEAK
2		0.236	0.160	41.800	41.960	-21.583	63.543	QUASIPEAK
3		0.415	0.200	29.580	29.780	-28.649	58.429	QUASIPEAK
4		1.797	0.360	32.680	33.040	-22.960	56.000	QUASIPEAK
5	*	3.590	0.420	39.940	40.360	-15.640	56.000	QUASIPEAK
6		10.963	0.750	34.930	35.680	-24.320	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/04/14 - 20:08
Limit : CISPR_B_00M_AV	Margin : 0
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Receive (Dongle)

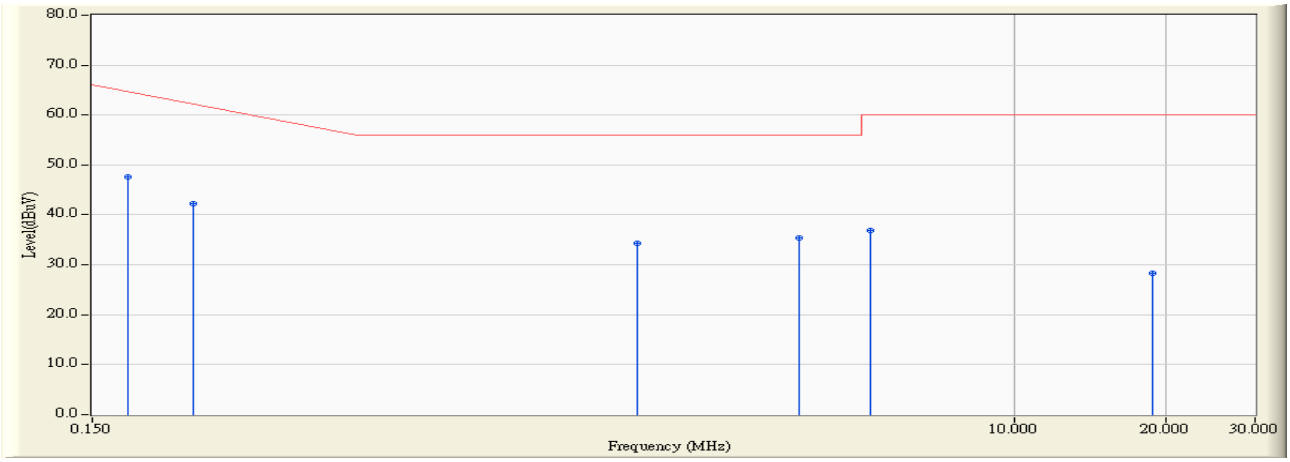


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.176	0.146	39.270	39.416	-15.841	55.257	AVERAGE
2		0.236	0.160	35.710	35.870	-17.673	53.543	AVERAGE
3		0.415	0.200	26.620	26.820	-21.609	48.429	AVERAGE
4	*	1.797	0.360	30.140	30.500	-15.500	46.000	AVERAGE
5		3.590	0.420	27.930	28.350	-17.650	46.000	AVERAGE
6		10.963	0.750	32.130	32.880	-17.120	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/04/14 - 20:12
Limit : CISPR_B_00M_QP	Margin : 0
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 2: Receive (Dongle)

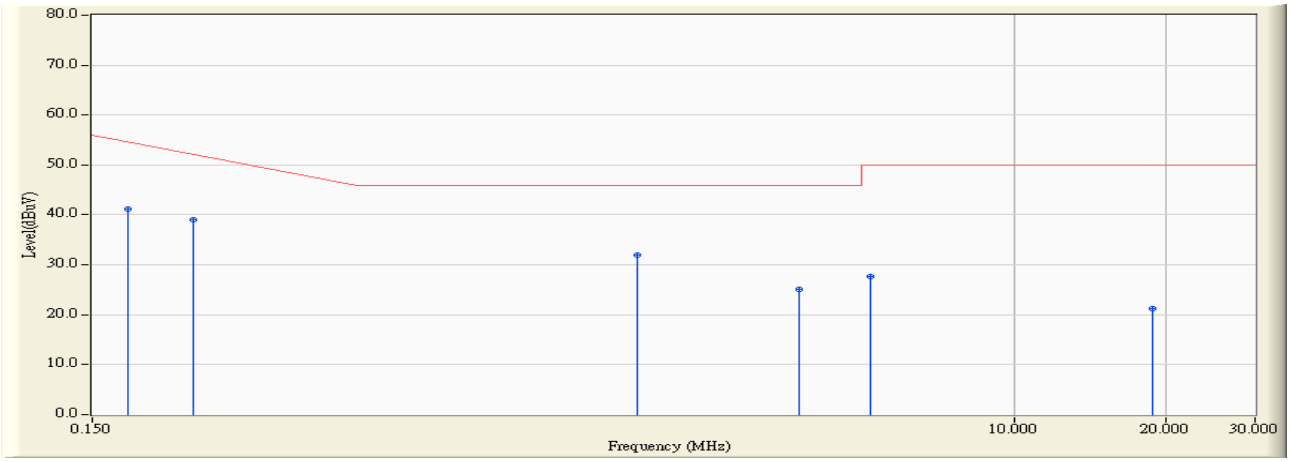


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.177	0.146	47.490	47.636	-17.593	65.229	QUASIPEAK
2		0.237	0.160	42.160	42.320	-21.194	63.514	QUASIPEAK
3		1.795	0.360	33.900	34.260	-21.740	56.000	QUASIPEAK
4		3.768	0.430	35.000	35.430	-20.570	56.000	QUASIPEAK
5		5.207	0.470	36.410	36.880	-23.120	60.000	QUASIPEAK
6		18.865	0.900	27.420	28.320	-31.680	60.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room2	Time : 2007/04/14 - 20:12
Limit : CISPR_B_00M_AV	Margin : 0
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 2: Receive (Dongle)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.177	0.146	41.030	41.176	-14.053	55.229	AVERAGE
2		0.237	0.160	38.890	39.050	-14.464	53.514	AVERAGE
3	*	1.795	0.360	31.640	32.000	-14.000	46.000	AVERAGE
4		3.768	0.430	24.720	25.150	-20.850	46.000	AVERAGE
5		5.207	0.470	27.120	27.590	-22.410	50.000	AVERAGE
6		18.865	0.900	20.370	21.270	-28.730	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

2.8. Test Photo

Test Mode ： Mode 1: Receive (Tablet)
Description： Front View of Conducted Emission Test Setup

Test Mode ： Mode 1: Receive (Tablet)
Description： Back View of Conducted Emission Test Setup

Test Mode ： Mode 2: Receive (Dongle)
Description： Front View of Conducted Emission Test Setup

Test Mode ： Mode 2: Receive (Dongle)
Description： Back View of Conducted Emission Test Setup

3. Radiated Emission

3.1. Test Equipment

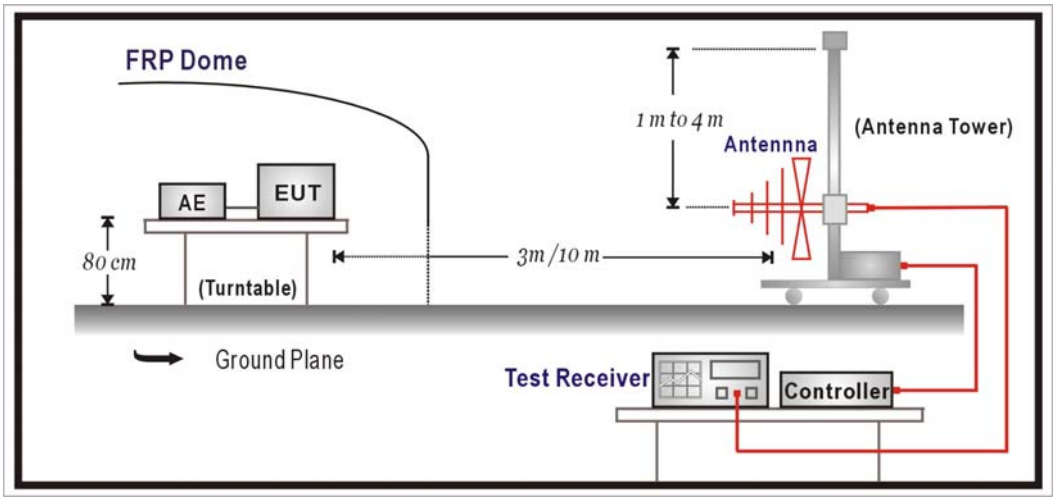
The following test equipment are used during the test:

Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Test Receiver	R & S	ESCS 30 / 825442/017	Jan., 2007
2	X	Spectrum Analyzer	Advantest	R3261C / 81720266	N/A
3	X	Pre-Amplifier	QuieTek	8447D / 2944A09276	N/A
4	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
5	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2006
6	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
7	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2006
8	No.1 OATS				Sep., 2006

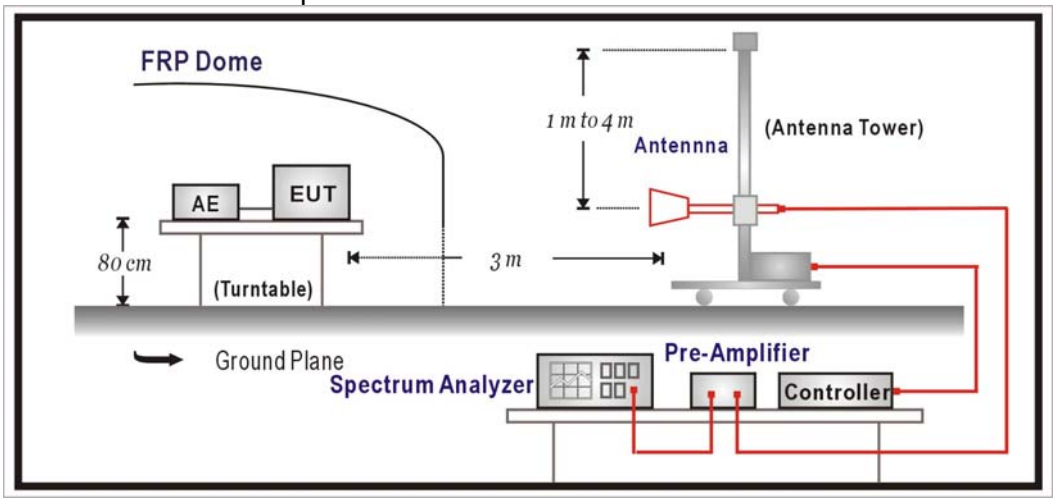
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. “N/A” Ca1.Date is used to Pre-test, not final test.

3.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



3.3. Limits

CISPR 22 Limits (dBuV/m)				
Frequency MHz	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30 – 230	10	40	10	30
230 – 1000	10	47	10	37

Remark: 1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

FCC Part 15 Subpart B Paragraph 15.109 Limits				
Frequency MHz	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30-88	10	39	3	40
88-216	10	43.5	3	43.5
216-960	10	46.4	3	46
Above 960	10	49.5	3	54

Remark: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Carrier current systems used as unintentional radiators or other unintentional radiators that are designed to conduct their radio frequency emissions via connecting wires or cables and that operate in the frequency range of 9 KHz to 30 MHz, including devices that deliver the radio frequency energy to transducers, such as ultrasonic devices not covered under part 18 of this chapter, shall comply with the radiated emission limits for intentional radiators provided in §15.209 for the frequency range of 9 KHz to 30 MHz. As an alternative, carrier current systems used as unintentional radiators and operating in the frequency range of 525 KHz to 1705 KHz may comply with the radiated emission limits provided in §15.221(a).

3.4. Test Procedure

Under 30MHz Test:

The EUT and its simulators are placed on a turn table which is 1.0 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum electric field strength. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna which is 1.0 meter above ground. All X-axis, Y-axis and Z-axis polarization of the antenna are set on measurement.

The bandwidth below 30MHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 200Hz and above 30MHz is 9 KHz.

The emission limit shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emission limit in these three bands are based on measurements employing an average detector.

Above 30MHz Test:

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

For class A, the EUT was positioned such that the distance from antenna to the EUT was 10 meters for under 1GHz and above 1GHz.

For class B, the EUT was positioned such that the distance from antenna to the EUT was 3 or 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 KHz and above 1GHz is 1MHz.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission.

All of the interface cables must be manipulated according to ANSI C63.4:2009 on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the folowing table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

3.5. Test Specification

According to FCC Part 15 Subpart B: 2009

3.6. Uncertainty

The measurement uncertainty

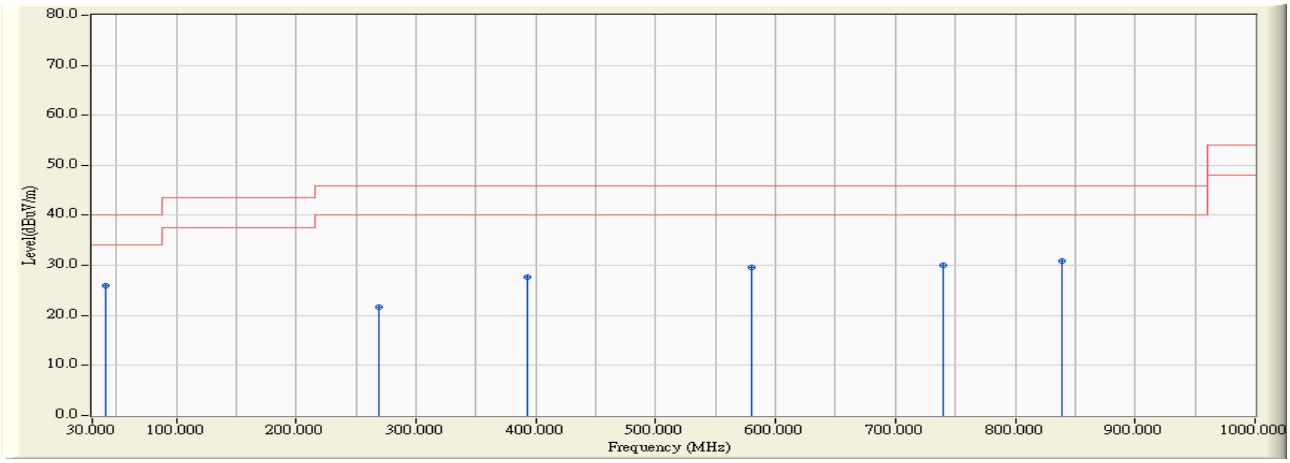
30MHz～1GHz as ±3.43dB

1GHz～26.5GHz as ±3.65dB

3.7. Test Result

30MHz-1GHz Spurious:

Site : Site 1	Time : 2007/04/19 - 13:58
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC 120V/60Hz	Note : RX-39 Mode 1: Receive (Tablet)

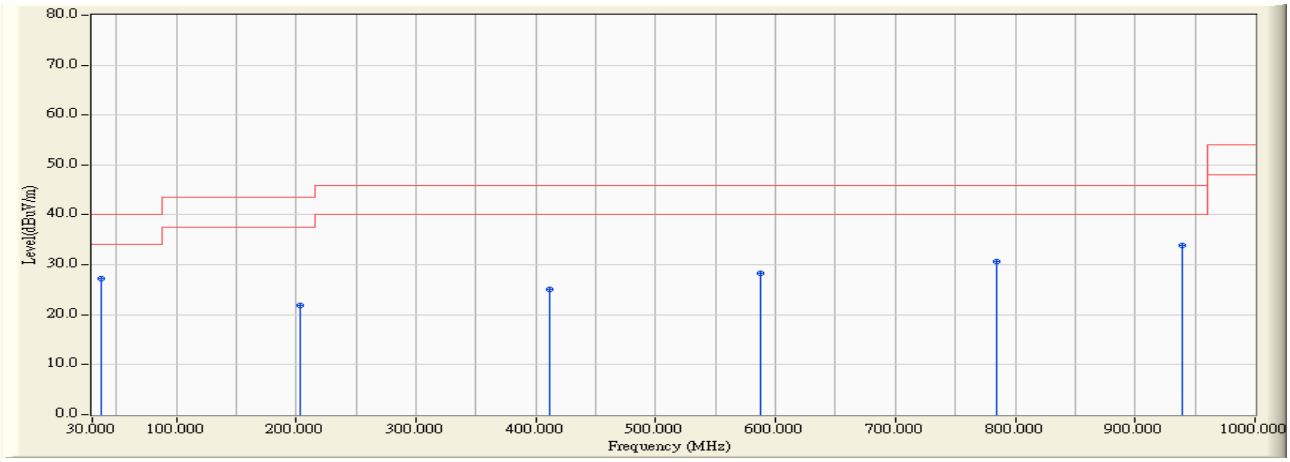


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	41.663	-1.896	27.886	25.990	-14.010	40.000	QUASI-PEAK
2		269.098	-7.085	28.811	21.725	-24.275	46.000	QUASI-PEAK
3		393.507	0.407	27.318	27.725	-18.275	46.000	QUASI-PEAK
4		580.120	5.369	24.294	29.663	-16.337	46.000	QUASI-PEAK
5		739.519	4.223	25.829	30.053	-15.947	46.000	QUASI-PEAK
6		838.657	3.956	26.933	30.890	-15.110	46.000	QUASI-PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : Site 1	Time : 2007/04/19 - 13:58
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC 120V/60Hz	Note : RX39- Mode 1: Receive (Tablet)

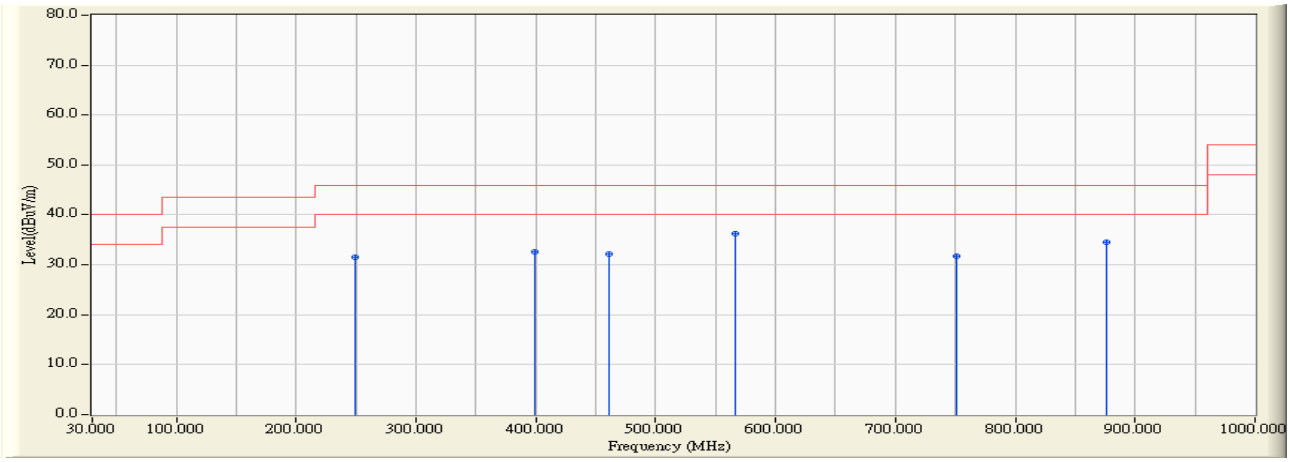


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		37.776	-4.390	31.627	27.236	-12.764	40.000	QUASI-PEAK
2		203.006	-3.127	25.085	21.958	-21.542	43.500	QUASI-PEAK
3		411.002	-0.198	25.315	25.116	-20.884	46.000	QUASI-PEAK
4		587.896	2.684	25.693	28.377	-17.623	46.000	QUASI-PEAK
5		784.228	5.488	25.237	30.725	-15.275	46.000	QUASI-PEAK
6	*	939.740	9.014	24.922	33.936	-12.064	46.000	QUASI-PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : Site 1	Time : 2007/04/19 - 14:03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC 120V/60Hz	Note : RX-39 Mode 2: Receive (Dongle)

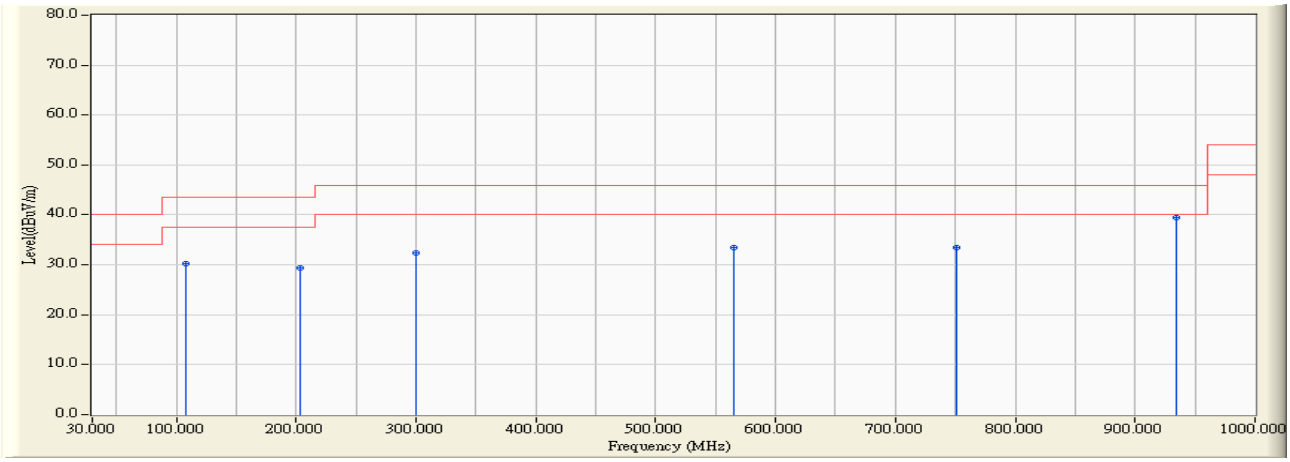


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		249.659	-8.916	40.498	31.583	-14.417	46.000	QUASIPEAK
2		399.339	1.121	31.528	32.649	-13.351	46.000	QUASIPEAK
3		461.543	2.325	29.856	32.181	-13.819	46.000	QUASIPEAK
4	*	566.513	4.251	31.985	36.236	-9.764	46.000	QUASIPEAK
5		751.182	3.516	28.144	31.660	-14.340	46.000	QUASIPEAK
6		875.591	5.426	29.098	34.524	-11.476	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : Site 1	Time : 2007/04/19 - 14:02
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC 120V/60Hz	Note : RX-39 Mode 2: Receive (Dongle)



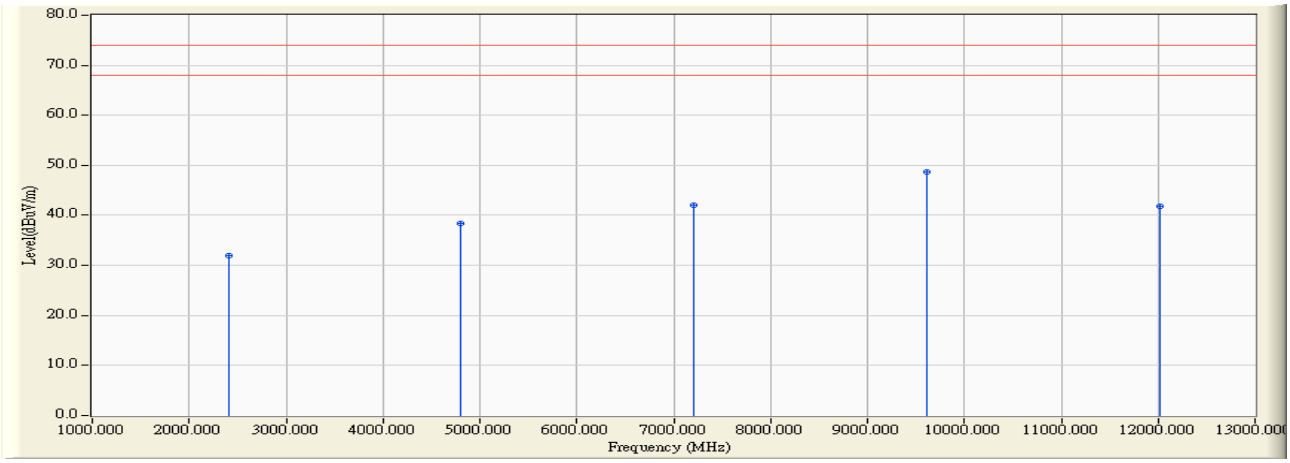
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		107.756	-0.691	30.885	30.194	-13.306	43.500	QUASIPEAK
2		203.006	-3.127	32.502	29.375	-14.125	43.500	QUASIPEAK
3		300.200	-8.515	40.857	32.342	-13.658	46.000	QUASIPEAK
4		564.569	2.234	31.196	33.430	-12.570	46.000	QUASIPEAK
5		751.182	1.935	31.442	33.377	-12.623	46.000	QUASIPEAK
6	*	933.908	7.251	32.140	39.391	-6.609	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Above 1 GHz Spurious:

Site : Site 1	Time : 2007/04/20 - 15:08
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : RX-01Mode 1: Receive (Tablet)

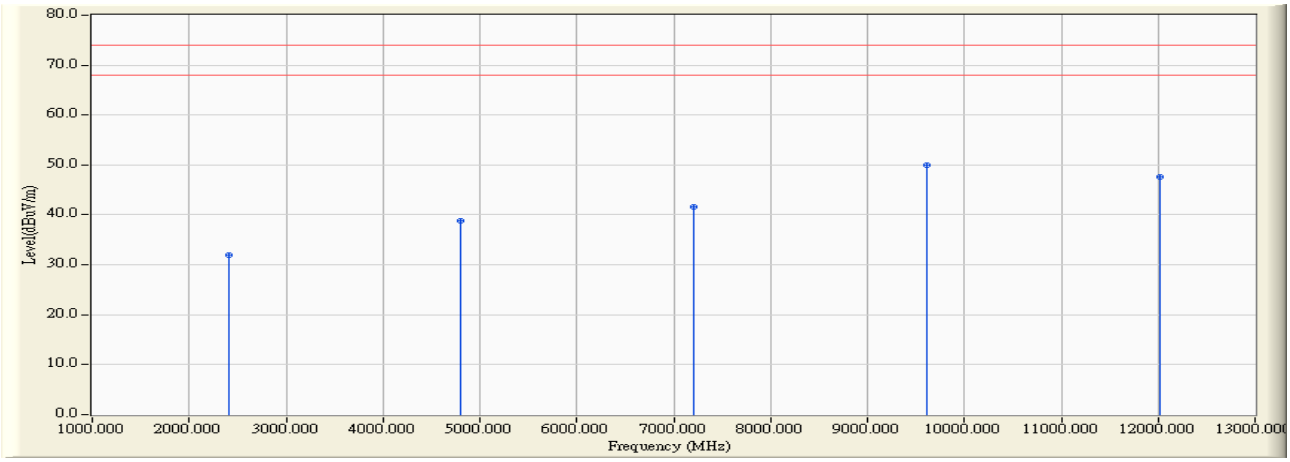


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2404.290	-2.592	34.570	31.978	-42.022	74.000	PEAK
2		4808.300	3.622	34.750	38.372	-35.628	74.000	PEAK
3		7212.220	8.698	33.250	41.948	-32.052	74.000	PEAK
4	*	9616.490	12.690	36.100	48.790	-25.210	74.000	PEAK
5		12020.310	11.698	30.070	41.767	-32.233	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:10
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : RX-01 Mode 1: Receive (Tablet)

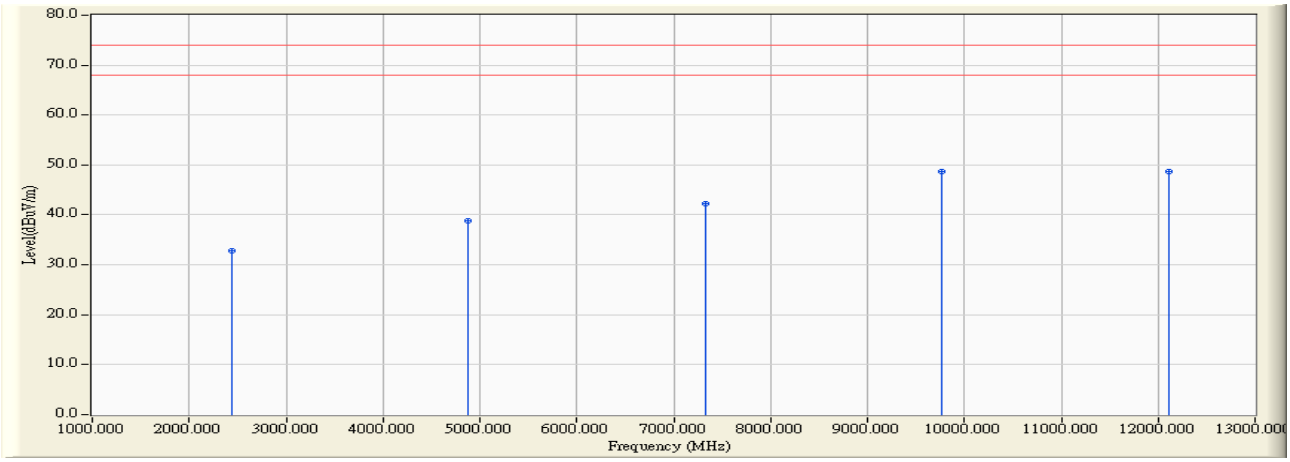


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2404.050	-4.192	36.170	31.977	-42.023	74.000	PEAK
2		4808.160	1.842	36.990	38.831	-35.169	74.000	PEAK
3		7212.010	8.663	33.020	41.683	-32.317	74.000	PEAK
4	*	9616.200	14.687	35.320	50.007	-23.993	74.000	PEAK
5		12020.290	16.704	30.990	47.693	-26.307	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:11
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : RX39-Mode 1: Receive (Tablet)

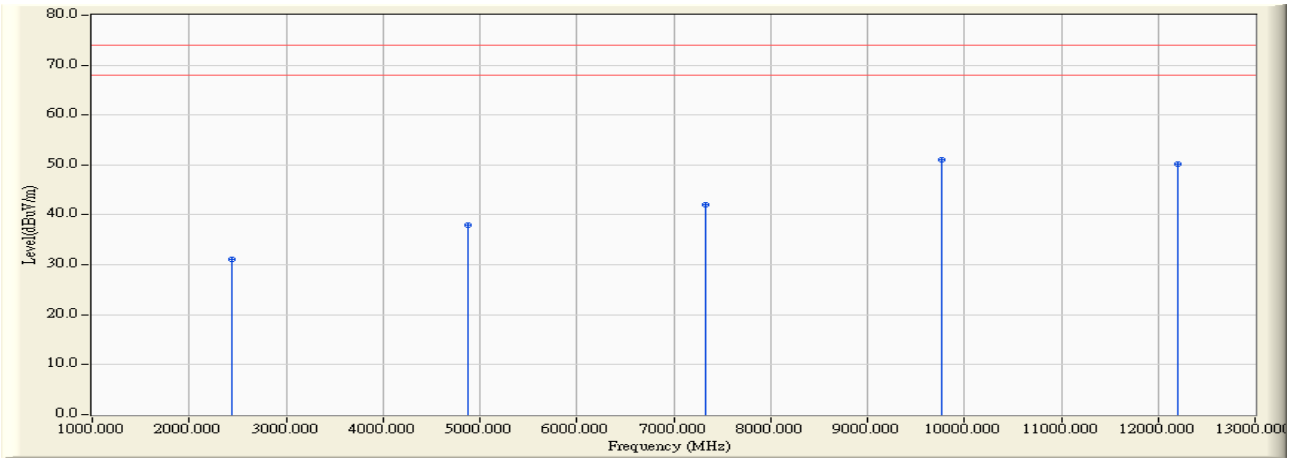


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2442.220	-2.441	35.200	32.760	-41.240	74.000	PEAK
2		4884.200	4.158	34.700	38.858	-35.142	74.000	PEAK
3		7326.400	8.863	33.400	42.263	-31.737	74.000	PEAK
4	*	9768.610	13.242	35.510	48.752	-25.248	74.000	PEAK
5		12104.800	18.196	30.510	48.706	-25.294	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:12
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : RX39-Mode 1: Receive (Tablet)

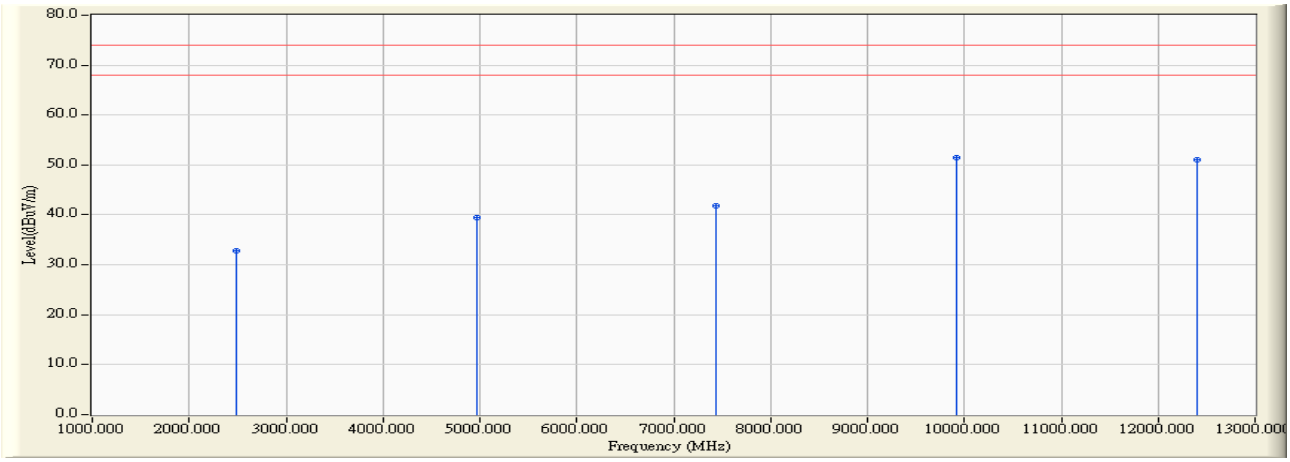


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2442.030	-4.041	35.180	31.140	-42.860	74.000	PEAK
2		4884.180	2.522	35.380	37.902	-36.098	74.000	PEAK
3		7326.060	8.862	33.270	42.132	-31.868	74.000	PEAK
4	*	9768.330	15.241	35.720	50.961	-23.039	74.000	PEAK
5		12210.450	19.507	30.660	50.167	-23.833	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:14
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : RX78-Mode 1: Receive (Tablet)

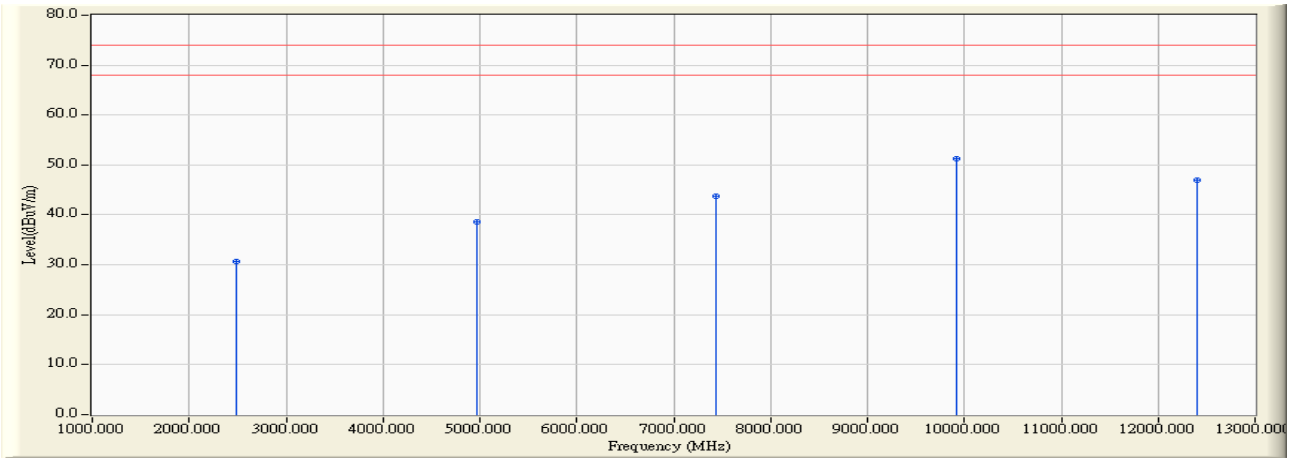


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2481.110	-2.262	34.970	32.709	-41.291	74.000	PEAK
2		4962.210	4.400	35.170	39.570	-34.430	74.000	PEAK
3		7443.210	9.020	32.840	41.860	-32.140	74.000	PEAK
4	*	9924.560	14.586	36.900	51.486	-22.514	74.000	PEAK
5		12405.260	21.126	29.830	50.956	-23.044	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:15
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : RX78-Mode 1: Receive (Tablet)

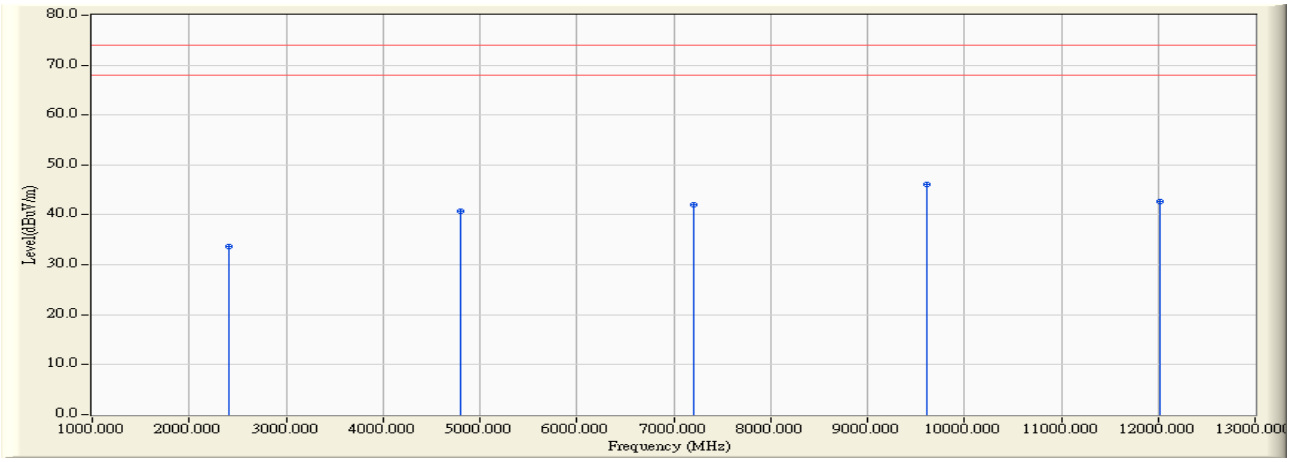


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2481.210	-3.861	34.570	30.709	-43.291	74.000	PEAK
2		4961.960	2.922	35.680	38.602	-35.398	74.000	PEAK
3		7443.210	9.020	34.740	43.760	-30.240	74.000	PEAK
4	*	9924.360	15.340	35.830	51.170	-22.830	74.000	PEAK
5		12405.310	16.116	30.810	46.926	-27.074	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:23
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : RX01-Mode 2: Receive (Dongle)

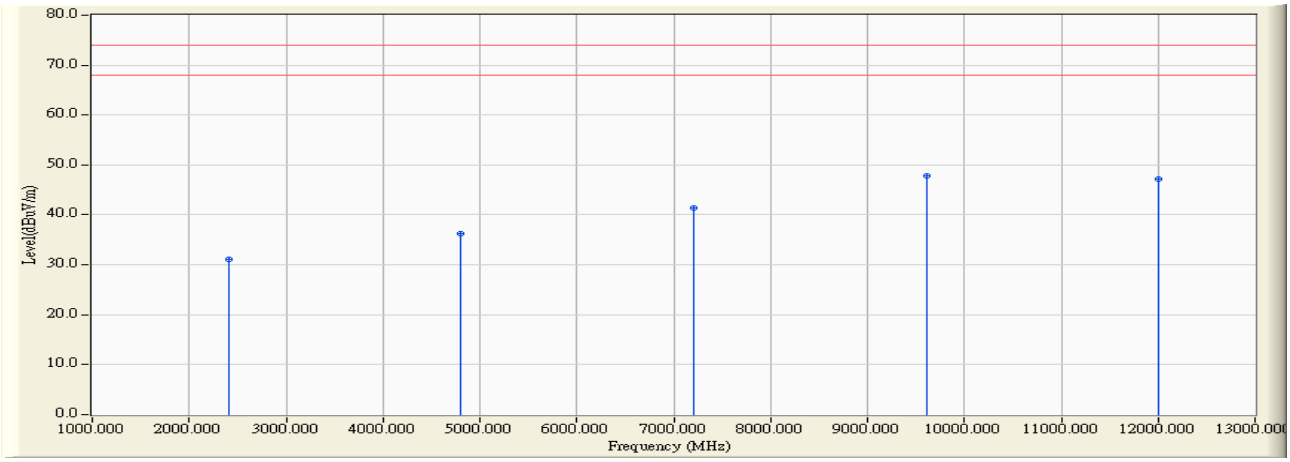


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2404.360	-2.592	36.210	33.619	-40.381	74.000	PEAK
2		4808.240	3.622	37.230	40.852	-33.148	74.000	PEAK
3		7212.520	8.699	33.250	41.949	-32.051	74.000	PEAK
4	*	9616.540	12.690	33.420	46.110	-27.890	74.000	PEAK
5		12020.540	11.717	30.890	42.607	-31.393	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:25
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : RX01-Mode 2: Receive (Dongle)

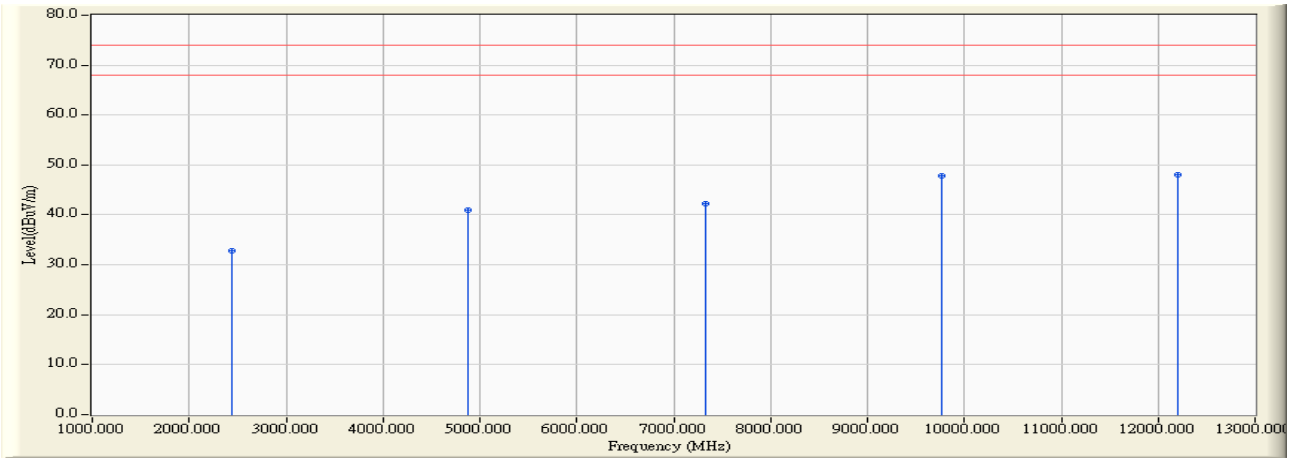


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2404.360	-4.192	35.260	31.069	-42.931	74.000	PEAK
2		4808.320	1.843	34.350	36.193	-37.807	74.000	PEAK
3		7212.360	8.665	32.800	41.465	-32.535	74.000	PEAK
4	*	9616.380	14.687	33.070	47.757	-26.243	74.000	PEAK
5		12010.400	16.610	30.490	47.100	-26.900	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:26
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : RX39-Mode 2: Receive (Dongle)

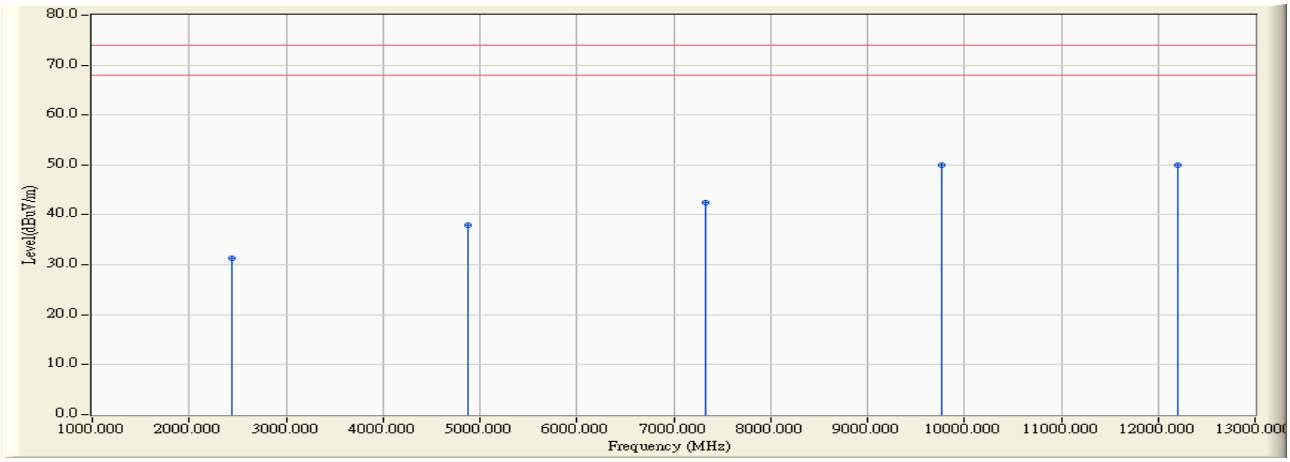


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2442.292	-2.440	35.310	32.870	-41.130	74.000	PEAK
2		4884.250	4.158	36.790	40.948	-33.052	74.000	PEAK
3		7326.480	8.863	33.460	42.323	-31.677	74.000	PEAK
4		9768.520	13.242	34.590	47.832	-26.168	74.000	PEAK
5	*	12210.460	17.430	30.510	47.940	-26.060	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:27
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : RX39-Mode 2: Receive (Dongle)

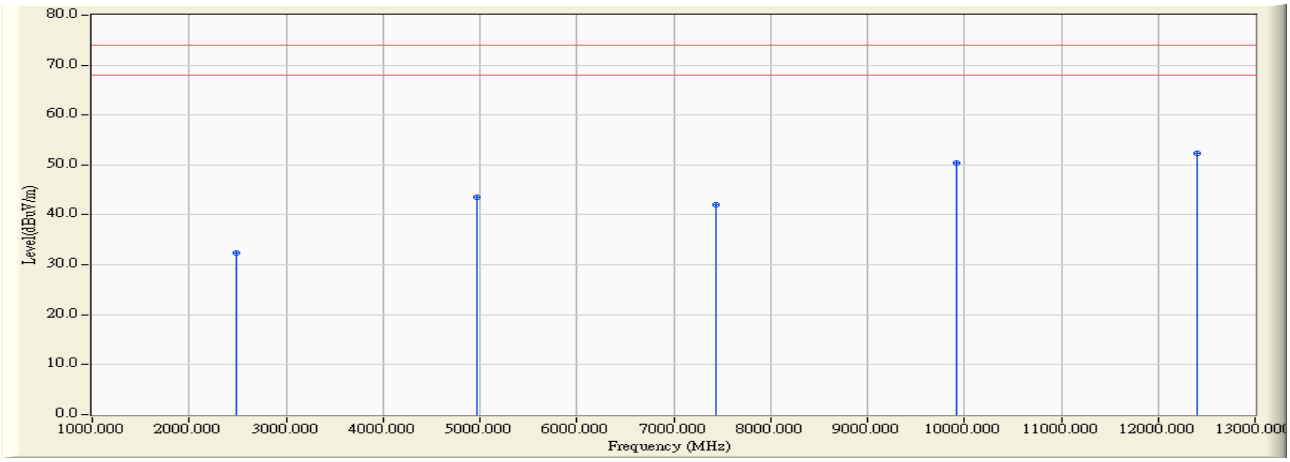


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2441.980	-4.041	35.360	31.319	-42.681	74.000	PEAK
2		4884.260	2.523	35.360	37.883	-36.117	74.000	PEAK
3		7326.260	8.863	33.500	42.363	-31.637	74.000	PEAK
4		9768.080	15.239	34.700	49.939	-24.061	74.000	PEAK
5	*	12210.280	19.509	30.560	50.069	-23.931	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:28
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : RX78-Mode 2: Receive (Dongle)

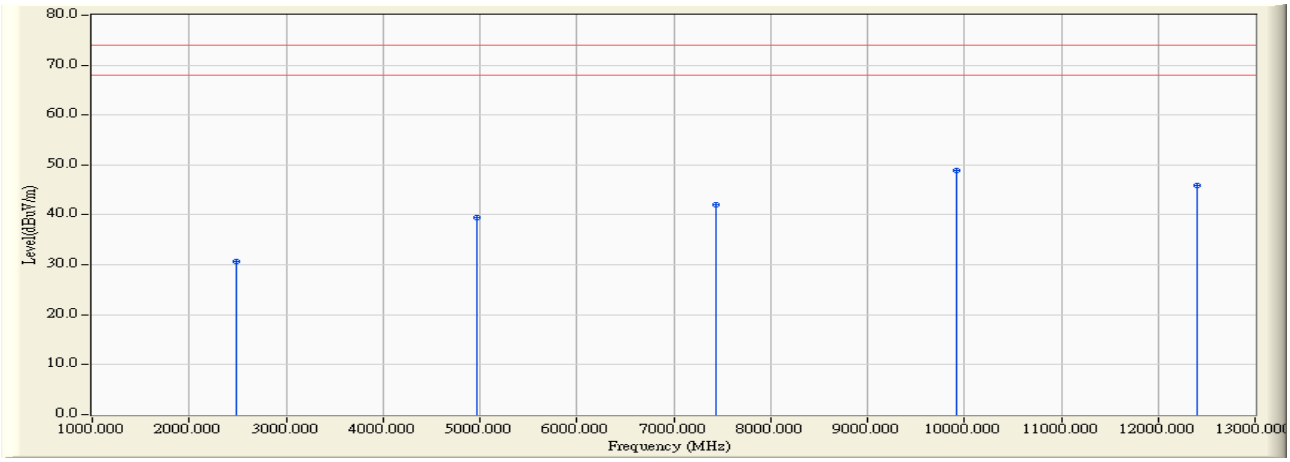


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2481.220	-2.261	34.690	32.429	-41.571	74.000	PEAK
2		4962.100	4.400	39.150	43.550	-30.450	74.000	PEAK
3		7443.180	9.020	32.920	41.940	-32.060	74.000	PEAK
4		9924.630	14.586	35.770	50.356	-23.644	74.000	PEAK
5	*	12405.610	21.158	31.270	52.427	-21.573	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/04/20 - 15:30
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
EUT: Tablet: Wireless Tablet X860/X861; Dongle: Wireless Tablet Receiver X860/X861	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : RX78-Mode 2: Receive (Dongle)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2481.220	-3.861	34.600	30.739	-43.261	74.000	PEAK
2		4962.160	2.922	36.600	39.522	-34.478	74.000	PEAK
3		7443.260	9.020	33.030	42.050	-31.950	74.000	PEAK
4	*	9924.710	15.340	33.620	48.960	-25.040	74.000	PEAK
5		12405.210	16.117	29.760	45.877	-28.123	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

3.8. Test Photo

Test Mode ： Mode 1: Receive (Tablet)
Description： Front View of Radiated Emission Test Setup (Bi-Log)

Test Mode ： Mode 1: Receive (Tablet)
Description： Back View of Radiated Emission Test Setup (Bi-Log)

Test Mode ： Mode 1: Receive (Tablet)
Description： Front View of Radiated Emission Test Setup (Horn)

Test Mode ： Mode 2: Receive (Dongle)
Description： Front View of Radiated Emission Test Setup (Bi-Log)

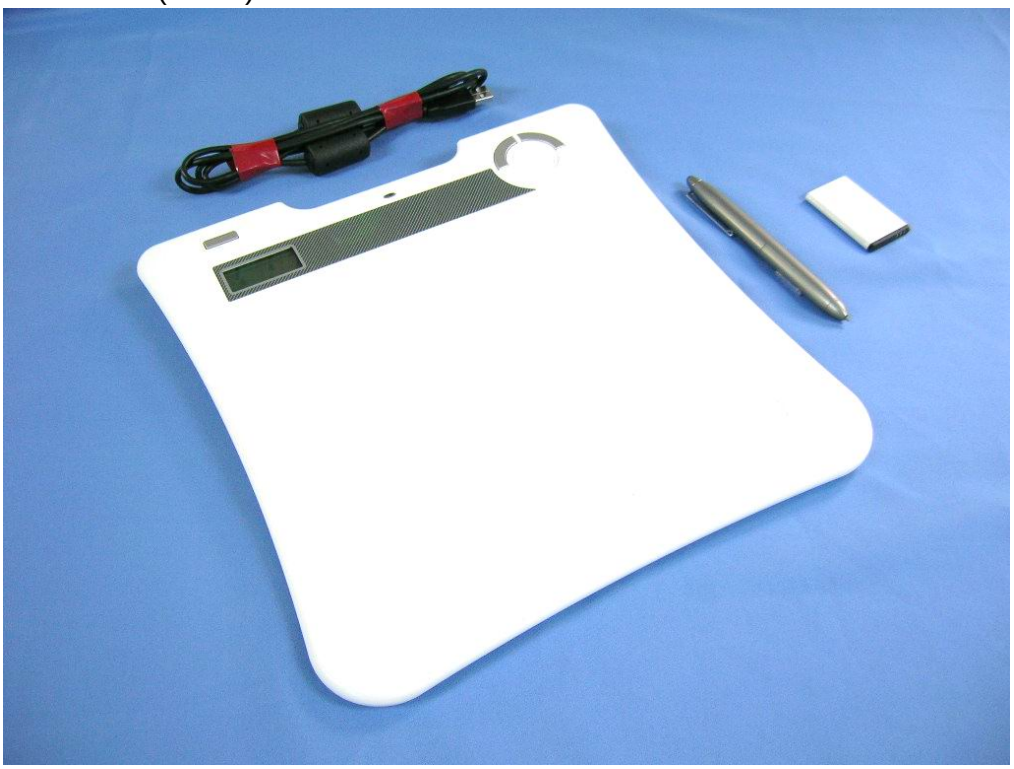
Test Mode ： Mode 2: Receive (Dongle)
Description： Back View of Radiated Emission Test Setup (Bi-Log)

Test Mode ： Mode 2: Receive (Dongle)
Description： Front View of Radiated Emission Test Setup (Horn)

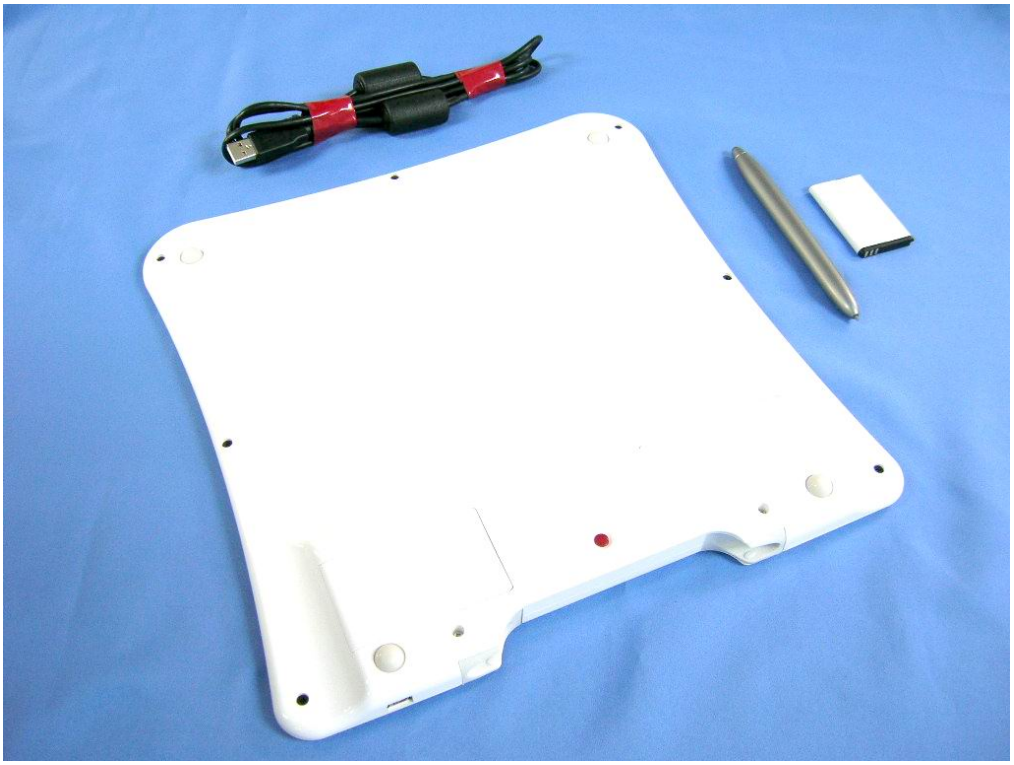
Attachement

➢ EUT Photograph

(1) EUT Photo (Tablet)



(2) EUT Photo



(3) EUT Photo (Dongle)

(4) EUT Photo

Reference : Laboratory of License

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200347-0

Quietek Corporation

Hsin-Chu Country
TAIWAN

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ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2010-10-01 through 2011-09-30

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DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS **NVLAP LAB CODE 200347-0**

NVLAP Code	*Designation / Description*
Emissions Test Methods	
12/100063c	IEC 61000-6-3 (1996), EN 61000-6-3 (2001), A1 (2004): Electromagnetic Compatibility (EMC) - Part 6: Generic standards - Section 3: Emission standard for residential, commercial, and light-industrial environments.
12/610006c	EN 61000-6-3 (2001) and IEC 61000-6-3 (1996): Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
12/610006d	EN 61000-6-4 (2001) and IEC 61000-6-4 (1997): Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
12/610006h	IEC 61000-6-4 (2006-07): Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
12/610006m	EN 61000-6-4 (2007): Electromagnetic Compatibility (EMC) - Part 6-4: Generic Standards - Emission Standard for Industrial Environments
12/610006p	IEC 61000-6-3 (2006-06): Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments

2010-10-01 through 2011-09-30
Effective dates

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ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/61000f	EN 61000-6-3 (2001) + A1 (2004): Electromagnetic compatibility (EMC) - Part 6-3: Generic standard - Emission standard for residential, commericial and light industrial environments
12/61000g	EN 61000-6-3 (2007): Electromagnetic compatibility (EMC) - Part 6-3: Generic standard - Emission standard for residential, commericial and light industrial environments
12/61204a	IEC/EN 61204-3 (2001): Low-voltage power supplies, d.c. output - Part 3: Electromagnetic compatibility (EMC)
12/61326a5	BS EN 61326-2-2 (2006-06): EMC requirements. Particular requirements. Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems
12/61326a6	EN 61326-2-1 (2006-05): EMC requirements. Particular requirements. Test configurations, operational conditions and performance criteria for EMC unprotected applications
12/61326a7	EN 61326-2-3 (2006-08): EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning
12/61326a8	IEC 61326-2-1 (2005): EMC requirements. Particular requirements. Test configurations, operational conditions and performance criteria for EMC unprotected applications
12/61326b5	IEC 61326-2-2 (2005): EMC requirements. Particular requirements. Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems
12/61326b7	IEC 61326-2-3 (2006): EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning
12/61326d	IEC 61326-1 (2005-12): Electrical equipment for measurement, control and laboratory use - EMC requirements

2010-10-01 through 2011-09-30

Effective dates

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ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/61326k	EN 61326-2-4 (2006) and IEC 61326-2-4 (2006): Electrical equipment for measurement, control and laboratory use. EMC requirements. Particular requirements. Test configurations, operational conditions and performance criteria for insulation monitoring devices
12/61326m	EN 61326-2-5 (2006) and IEC 61326-2-5 (2006): Electrical equipment for measurement, control and laboratory use. EMC requirements. Particular requirements . Test configurations, operational conditions and performance criteria for field devices
12/61326n	EN 61326-2-6 (2006) and IEC 61326-2-6 (2005): Electrical equipment for measurement, control and laboratory use. EMC requirements. Particular requirements. In vitro diagnostic (IVD) medical equipment
12/61800b	EN 61800-3 (2004): Adjustable speed electrical power drive systems - Part 3: EMC product standard including specific test methods
12/62040c	EN 62040-2:2006: Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
12/7637-2a	ISO 7637-2, Second edition (2004) + A1 (2008): Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only
12/7637a	ISO 7637-1, 2nd Edition (2002-03-15): Road vehicles - Electrical disturbances from conduction and coupling - Part 1: Definitions and general considerations
12/7637aa	ISO 7637-1 (2002) +A1 (2008): Road vehicles - Electrical disturbances from conduction and coupling - Part 1: Definitions and general considerations
12/7637b	ISO 7637-2, Second edition (2004): Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only
12/7637d	ISO 7637-3 (2007): Road vehicles - Electrical disturbance by conduction and coupling - Part 3: vehicles with nominal 12 V or 24 V supply voltage - Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines

2010-10-01 through 2011-09-30

Effective dates

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ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

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NVLAP Code	*Designation / Description*
12/CIS11ab	CNS 13803 (2003): Limits and methods of measurement of electromagnetic interference characteristics of industrial, scientific an medical (ISM) radio-frequency equipment
12/CIS11d	EN 55011 (1998), A1 (1999), A2 (2002): Industrial, Scientific and Medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
12/CIS11h	AS/NZS CISPR 11 (2004): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
12/CIS11jj	EN 55011 (2007) + A2 (2007): Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
12/CIS12e	CISPR 12 (2007) + A1 (2009): Vehicles, boats and internal combustion engine driven devices - Radio disturbance characteristics
12/CIS13aa	CISPR 13, Edition 4.2 (2006-03): Sound and broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS13bb	EN 55013 (2001) + A1 (2003) + A2 (2006): Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS13f	AS/NZS CISPR 13 (2004): Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS14	CISPR 14-1 (March 30, 2000): Limits and Methods of Measurement of Radio interference Characteristics of Household Electrical Appliances, Portable Tools and Similiar Electrical Apparatus - Part 1: Emissions
12/CIS14a	EN 55014-1 (1993), A1 (1997), A2 (1999):

2010-10-01 through 2011-09-30

Effective dates

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ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

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NVLAP Code	*Designation / Description*
12/CIS14a4	EN 55014-1 (2006): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
12/CIS14b	AS/NZS 1044 (1995):
12/CIS14c	CNS 13783-1: Electromagnetic Compatibility Requirements for household appliances, electric tools and similar apparatus - Part 1: Emissions
12/CIS14gg	CNS 13783-1 (2004): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
12/CIS14h	AS/NZS CISPR 14.1 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Emission
12/CIS14x1	IEC/CISPR 14-1, Ed. 5.0 (2005): Electromagnetic Compatibility - Requirements for Household Appliances, Electric Tools and Similar Apparatus - Part 1: Emission
12/CIS15a1	AS/NZS CISPR 15 (2006): Limits and methods of measurements of radio disturbance characteristics of electrical lighting and similar equipment
12/CIS15aa	CISPR 15 (2005-11): Limits and methods of measurements of radio disturbance characteristics of electrical lighting and similar equipment
12/CIS15ac	CISPR 15 (2007 Ed. 7.1): Limits and methods of measurements of radio disturbance characteristics of electrical lighting and similar equipmen
12/CIS15bc	CNS 13439 (2004): Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
12/CIS15cc	EN 55015 (2006): Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
12/CIS15g	CNS 14115 (2004): Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

2010-10-01 through 2011-09-30

Effective dates

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NVLAP Code	*Designation / Description*
12/CIS22	IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000): Limits and methods of measurement of radio disturbance characteristics of information technology equipment
12/CIS22L	EN 55022 (2006) + A1 (2007): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS22a	IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996)
12/CIS22b	CNS 13438 (1997): Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
12/CIS22c3	IEC/CISPR 22, Edition 5 (2005) + A1(2005): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS22c5	IEC/CISPR 22, Edition 5 (2005) + A1(2005) + A2 (2006): Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement
12/CIS22j	EN 55022 (2006): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS22k	IEC/CISPR 22 (2008-09): Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment
12/CIS22m	EN 55015 (2006) + A1(2007): Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
12/CIS25b	IEC/CISPR 25, 2nd ed. (2002-08): Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices ? Limits and methods of measurement: Sections 6.2, 6.3, 6.4, & 6.5
12/CIS25c	IEC/CISPR 25, Ed. 3.0 (2008-03): Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices ? Limits and methods of measurement

2010-10-01 through 2011-09-30

Effective dates

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ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/EM02a	IEC 61000-3-2, Edition 2.1 (2001-10), EN 61000-3-2 (2000), and AS/NZS 2279.1 (2000): Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A)
12/EM02i	IEC 61000-3-2, Ed. 3.0 (2005-11): Electromagnetic compatability (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <=16 A per phase)
12/EM02j	EN 61000-3-2 (2006): Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)
12/EM03b	IEC 61000-3-3, Edition 1.1(2002-03) & EN 61000-3-3, A1(2001): EMC - Part 3-3: Limits - Limitations of voltage changes, voltage flucuations and flicker, in public low-voltage supply-systems, for equipment with rated current <=16 A per phase and not subject to conditional connections
12/FCC15b	ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart B: Unintentional Radiators
12/FCC15c	ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart C: Intentional Radiators
12/FCC15c2	DA 00-705 - March 30, 2000 and KDB Pub. No. 558074: with FCC Method - 47 CFR Part 15, Subpart C: Intentional Radiators - (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems - and - New Guidance on Measurements for Digital Transmission Systems in Section 15.247)
12/FCC15cz	SS - MP with FCC Method - 15 CFR Part 15, Subpart C: Intentional Radiators
12/FCC15e	ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart E: Unlicensed National Information Infrastructure Service Devices
12/FCC15ez	UNII - MP with FCC Method - 47 CFR Part 15, Subpart E: Unlicensed National Information Infrastructure Services Devices
12/ICES003	ICES-003 Issue 4 (2004): Implementation and Interpretation of the Interference-Causing Equipment Standard for Digital Apparatus. (Industry Canada)

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/ICES006	ICES-006 Issue 1 (2001):
12/T51	AS/NZS CISPR 22 (2002) and AS/NZS 3548 (1997): Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment
12/T51b	AS/NZS CISPR 22, 3rd Edition (2006): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/VCCId	Agreement of VCCI V-3 (2008.04): Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2008.04
12/VCCIe	Agreement of VCCI V-3 (2009.04): Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2009.04 (radiated disturbance above 1 GHz)

Immunity Test Methods

12/10605	ISO 10605, First Edition (2001-12-15): Road vehicles ? Test methods for electrical disturbances from electrostatic discharge.
12/11452a	ISO 11452-1 (2005): Road vehicles -- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy -- Part 1: General principles and terminology
12/11452b	ISO 11452-2 (2004): Road vehicles -- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy -- Part 2: Absorber-lined shielded enclosure
12/11452c	ISO 11452-3 (2001): Road vehicles -- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy -- Part 3: Transverse electromagnetic mode (TEM) cell
12/11452e	ISO 11452-5 (2002): Road vehicles -- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy -- Part 5: Stripline

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/11452f	ISO 11452-4 (2005): Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Bulk current injection (BCI)
12/501304a	EN 50130-4 (1995) + A1(1998) & A2(2003): Alarm systems - Part 4. Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems
12/50412	EN 50412-2-1 (2005):
12/610006a	EN 61000-6-1 (2001): Electromagnetic compatibility (EMC) - Part 6 - 1: Generic standards - Immunity for residential, commercial and light-industrial environments
12/610006b	EN 61000-6-2 (2001): Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
12/610006i	IEC 61000-6-2, Edition 2.0 (2005-01): Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
12/610006j	EN 61000-6-2 (2005): Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
12/61000k	EN 61000-6-1 (2007): Electromagnetic compatibility (EMC) - Part 6 - 1: Generic standards - Immunity for residential, commercial and light-industrial environments
12/61326a4	EN 61326-1(2006): Electrical equipment for measurement, control and laboratory use - EMC requirements
12/61326j	IEC 61326-2-6, Ed. 1.0 (2005-12): Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment
12/61547	EN 61547 (October 1995) and IEC 61547 (1995) + Amd 1 (2000): Equipment for general lighting purposes EMC immunity requirements

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/61547a	IEC 61547 (1995): Equipment for general lighting purposes EMC immunity requirements
12/CIS14i3	EN 55014-2:1997 +A1 (2001) + A2 (2008): Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Immunity
12/CIS14ic	IEC/CISPR 14-2 Ed. 1.2 (2008): Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
12/CIS14k	AS/NZS CISPR 14.2 (2003): Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2. Immunity - Product family standard
12/CIS20d	EN 55020 (2002) +A1 (2003) + A2 (2005): Sound and television broadcast receivers and associated equipment - immunity characteristics - Limits and methods of measurement
12/CIS24b	AS/NZS CISPR 24 (2002): Information technology equipment - Immunity characteristics - Limits and methods of measurement
12/I01	IEC 61000-4-2, Ed. 1.2 (2001); EN 61000-4-2: Electrostatic Discharge Immunity Test
12/I01b	IEC 61000-4-2 (2001); EN 61000-4-2 (2001), A2 (2001): Electrostatic Discharge Immunity Test
12/I01c	EN 61000-4-2 +A1(1998) +A2(2001): Electrostatic Discharge Immunity Test
12/I01d	IEC 61000-4-2, Ed. 2.0 (2008-12): Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
12/I01e	IEC 61000-4-2 (1995): ESD Immunity Test
12/I02b	IEC/EN 61000-4-3, Ed. 2.1 (2002), A1 (2002); EN 61000-4-3: Radiated, radio-frequency, electromagnetic field immunity test
12/I02e	EN 61000-4-3 (2002) + A1(2002) + IS1(2004): Radiated, radio-frequency, electromagnetic field immunity test

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/I02f	EN 61000-4-3 (2002) + A1(2002): Radiated, radio-frequency, electromagnetic field immunity test
12/I02g	IEC 61000-4-3, Ed. 3.0 (2006-02): Electromagnetic compatibility (EMC) - Part 4-3: Testing measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
12/I02h	EN 61000-4-3 (2006): Radiated, radio-frequency, electromagnetic field immunity test
12/I02hh	EN 61000-4-3 (2006) +A1 (2008): Electromagnetic compatibility (EMC). Testing and measurement techniques. Radiated, radio- Frequency, electromagnetic field immunity test
12/I02i	IEC 61000-4-3, Ed. 3.1 (2008-04): Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
12/I02j	IEC 61000-4-3 (1996): Radiated, radio-frequency, electromagnetic field immunity test
12/I03	IEC 61000-4-4(1995), A1(2000), A2(2001); EN 61000-4-4: Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test
12/I03c	IEC 61000-4-4, Ed. 2.0 (2004-07): Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
12/I03e	EN 61000-4-4 (2004): Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
12/I03f	IEC 61000-4-4 (1995): Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test
12/I04	IEC 61000-4-5, Ed. 1.1 (2001-04); EN 61000-4-5: Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
12/I04aa	IEC 61000-4-5, Ed. 2.0 (2005-11); EN 61000-4-5: Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/I04b	IEC 61000-4-5 (2001), A1(2000); EN 61000-4-5(2001), A1(2000): Surge Immunity Test
12/I04c	IEC 61000-4-5, Ed 1.1 (2005-11): EMC - Part 4-5: Testing and measurement techniques - Surge immunity test
12/I04c1	IEC 61000-4-5, Ed 2 (2005-11): EMC - Part 4-5: Testing and measurement techniques - Surge immunity test
12/I04d	BS EN 61000-4-5 (2006):
12/I04e	EN 61000-4-5 (1995), A1 (2001): Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
12/I04f	IEC 61000-4-5 (1995): Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
12/I05	IEC 61000-4-6, Ed. 2.0 (2003-05); EN 61000-4-6: Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/I05b	IEC/EN 61000-4-6 (2001), A1 (2001): Immunity to Conducted Disturbances, Induced by Radio Frequency Fields
12/I05d	IEC 61000-4-6, Ed. 2.1 (2004); EN 61000-4-6: Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/I05e	EN 61000-4-6 (1996) + A1 (2001): Immunity to Conducted Disturbances, Induced by Radio Frequency Fields
12/I05ee	IEC 61000-4-6, Ed. 2.2 (2006-05): Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/I05f	IEC 61000-4-6, Ed 2.0 (2006-05): EMC - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/I05fl	IEC 61000-4-6 Ed. 3.0 (2008): Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/I05g	EN 61000-4-6 (2006): Immunity to Conducted Disturbances, Induced by Radio Frequency Fields
12/I05h	EN 61000-4-6 (2007): Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/I05i	IEC 61000-4-6 (1996): Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/I06	IEC 61000-4-8, Ed. 1.1 (2001); EN 61000-4-8: Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test
12/I06b	IEC 61000-4-8 (2001), A1(2000); EN 61000-4-8 (2001),A1(2000): Power Frequency Magnetic Field Immunity Test
12/I06c	EN 61000-4-8 (1993) + A1 (2001): Power Frequency Magnetic Field Immunity Test
12/I06d	IEC 61000-4-8 (1993): Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test
12/I07a	IEC 61000-4-11(1994),A1(2001) & EN 61000-4-11(1994),A1(2001): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/I07b	IEC/EN 61000-4-11 (2001), A1 (2001): Voltage Dips, Short Interuptions and Voltage Variations Immunity Tests

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/I07c	IEC 61000-4-11, Ed. 2 (2004-03) & EN 61000-4-11: Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests
12/I07f	EN 61000-4-11 (2004): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/I07g	IEC 61000-4-11 (2004): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/I08a	EN 55024 (1998) + A1 (2001) + A2 (2003): Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement
12/J111304	SAE J1113-4 (2004-08): Immunity to Radiated Electromagnetic Fields - Bulk Current Injection (BCI) Method
12/J111311	SAE J1113-11 (2006-01): Immunity to Conducted Transients on Power Leads
12/J111312	SAE J1113-12 (2006-08): Electrical Interference by Conduction and Coupling
12/J111313	SAE J1113-13 (2004-11): Electromagnetic Compatibility Measurement Procedure for Vehicle Components - Part 13 - Immunity to Electrostatic Discharge
12/J11131a	SAE J1113-11 (2007-06): Immunity to Conducted Transients on Power Leads
12/J111324	SAE J1113/24: Immunity to radiated electromagnetic fields; 10 kHz to 200 MHz - Crawford TEM cell and 10 kHz to 5 GHz - Wideband TEM cell
12/J111342	SAE J1113-42 (2006-10):
12/J1113c	SAE J1113-41 (2006-09): Radio Disturbance Characteristics for the Protection of Receivers Used on Board Vehicles

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
Product Safety Test Methods	
12/60065a	EN 60065 (2002): Audio, video and similar electronic apparatus. Safety requirements
12/606011	IEC 60601-1-2, Ed. 2.0 (2001) + A1 (2004): Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements and tests
12/60601ab	IEC 60601-1-2, Ed. 3.0 (2007): Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements and tests
12/60601bb	IEC 60601-2-2 Ed. 4.0 (2006): Medical electrical equipment - Part 2-2, Particular requirements for the safety of high frequency surgical equipment
12/60601h	EN 60601-1-2 (2001): Medical electrical equipment - Part 1 and Part 1-2: General requirements for safety: Collateral standard: EMC - Requirements and tests
12/60601hh	EN 60601-1-2 (2001) + A1(2006): Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard: EMC - Requirements and tests
Radio Test Methods	
12/300220d	ETSI EN 300 220-1 V2.1.1 (2006-04): Electromagnetic Compatibility Radio Spectrum Matters; Short Range Devices; Radio Equipment to be used in the 25 MHz to 1,000 MHz Frequency Range with Power Levels Ranging up to 500mW; Part 1: Technical Characteristics and Test Methods
12/300220e	ETSI EN 300 220-2 V2.1.1 (2006-04): ERM; Short Range Devices; Radio Equipment to be used in the 25MHz to 1,000 MHz Frequency Range with Power Levels Ranging up to 550 mW; Part 2: Supplementary Parameters Not Intended for Conformity Purposes
12/300328g	ETSI EN 300 328 V1.7.1 (2006-10): ERM; Wideband Transmission Systems; Data transport equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/300330c	ETSI EN 300 330-1 V1.5.1 (2006-04): ERM; Short Range Devices; Radio Equipment in the Frequency Range 9kHz to 25 MHz and Inductive Loop Systems in the Frequency Range 9kHz to 30 MHz; Part 1: Technical Characteristics and Test Methods
12/300330d	ETSI EN 300 330-2 V1.3.1 (2006-04): ERM; Short Range Devices (SRD); Radio Equipment in the Frequency Range 9kHz to 30 MHz; Part 2: Harmonized EN Under Article 3.2 of the R&TTE Directive
12/300440d	ETSI EN 300 440-2 v1.2.1 (2008-03): Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
12/300440e	ETSI EN 300 440-1 v1.4.1 (2008-05): Electromagnetic compatibility and Radio spectrum Matters (ERM): Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods
12/301126a	ETSI EN 301 126-1 v1.1.2 (1999-09): Fixed Radio Systems; Conformance testing; Part 1: Point-to-Point equipment - Definitions, general requirements and test procedures
12/301357b	ETSI EN 301 357-2 V1.3.1 (2006-05): ERM; Cordless Audio Devices in the Range 25 MHz to 2,000 MHz. Part 2: Harmonized EN covering essential requirements of 3.2 of the R&TTE Directive
12/301357c	ETSI EN 301 357-1 V1.3.1 (2006-05): ERM; Cordless Audio Devices in the Range 25 MHz to 2,000 MHz; Part 1: Technical Characteristics and Test Methods
12/301357d	ETSI EN 301 357-2 v1.4.1 (2007-12): ERM; Cordless Audio Devices in the Range 25 MHz to 2,000 MHz. Part 2: Harmonized EN covering essential requirements of 3.2 of the R&TTE Directive
12/301390	ETSI EN 301 390 v1.2.1 (2003-07): Fixed Radio Systems; Point-to-point and Multipoint Systems; Spurious emissions and receiver immunity limits at equipment/antenna port of Digital Fixed Radio Systems

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/301489b	ETSI EN 301 489-3 v1.4.1 (2002-08): Electromagnetic compatibility and Radio spectrum Matters; ElectroMagnetic Compatibility standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz
12/301489c	ETSI EN 301 489-4 v1.3.1 (2002-08): Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment and services
12/301489p	ETSI EN 301 489-20 v1.2.1 (2002-11): Electromagnetic compatibility and Radio spectrum Matters; ElectroMagnetic Compatibility standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)
12/301489z	ETSI EN 301 489-1 v1.6.1 (2005-09): ERM; ElectroMagnetic Compatability (EMC) Standard for Radio Equipment and Services; Common Technical Requirements
12/301893c	ETSI EN 301 893 V1.4.1 (2007-12): Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
12/302065	ETSI EN 302 065 V1.1.1 (2008-02):
12/302544a	ETSI EN 302 544-1 V1.1.1 (2009-02):
12/302544b	ETSI EN 302 544-2 V1.1.1 (2009-01):
12/31489	ETSI EN 301 489-1 v1.4.1 (2002-08): Electromagnetic Compatibility and Radio Spectrum Matter (ERM); Electromagnetic Compatibility (EMC) Standard for Radio Equipment and Services; Part 1: Common Technical Requirements
12/31489aa	ETSI EN 301 489-1 V1.7.1 (2006-07): ERM; ElectroMagnetic Compatibilty (EMC); Standard for Radio Equipment and Services; Part 1: Common Technical Requirements

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/31489ac	ETSI EN 301 489-1 V1.8.1 (2008-04): ERM; ElectroMagnetic Compatibilty (EMC); Standard for Radio Equipment and Services; Part 1: Common Technical Requirements
12/31489m	ETSI EN 301 489-17 v1.3.2 (2008-04): Electromagnetic compatibility and Radio spectrum Matters (ERM); EMC standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment
12/323262a	ETSI EN 302 326-1 v1.2.2 (2007-06):
12/323262b	ETSI EN 302 326-2 V1.2.2 (2007-06):
12/323262c	ETSI EN 302 326-3 V1.2.2 (2008-02):
12/AS4268e	AS/NZS 4268 (2008): Radio equipment and systems - Short range devices - Limits and methods of measurement
12/LP0002	LP0002 (January 2002): Low-Power Radio-frequency Devices Technical Specifications
12/LP0002c	DGT LP0002 (revised 24 March 2005): DGT Low-power Radio-Frequency Devices Technical Regulations, LP0002 (revised 24 March 2005)
12/RSS102	RSS-102, Issue 2 (November 12, 2005): using IEEE 1528 and/or IEEE C95.3 - Evaluation Procedure for Mobile and Portable Radio Transmiters with respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields
12/RSS192a	RSS-192, Issue 3 (January 2008): Fixed Wireless Access Systems in the Band 3450 - 3650 MHz
12/RSS193	RSS-193, Issue 1 (July 2003): Multipoint and Point-to-Point Communication Systems (MCS) in the Fixed Service Operating in the 2,150 - 2,160 MHz, 2,500 - 2,596 MHz and 2,686 - 2,690 MHz Bands
12/RSS195	RSS-195, Issue 1 (January 2004): Wireless Communications Service Equipment Operating in the Bands 2305 - 2320 MHz and 2345-2360 MHz

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200347-0

NVLAP Code	*Designation / Description*
12/RSS210	RSS-210, Issue 6 (Sept. 2005): Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category 1 Equipment
12/RSS210a	RSS-210, Issue 7 (June 2007): Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category 1 Equipment
12/RSS310	RSS-310, Issue 1 (Sept. 2005): Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category II Equipment
12/RSS310a	RSS-310, Issue 2 (June 2007): Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category II Equipment
12/RSSG2	RSS-Gen, Issue 2 (June 2007): General Requirements and Information for the Certification of Radiocommunication Equipment
12/RSSgen	RSS-Gen, Issue 1 (Sept. 2005): General Requirements and Information for the Certification of Radiocommunication Equipment
12/TW12	PLMN09 (2008): Subscriber Station for Wireless Broadband Access Type Approval Technical Specification

Telecommunications Test Methods

12/300386g	ETSI EN 300 386 V1.4.1 (2008-02): Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology