



**CTS (GUANGZHOU) TESTING SERVICE TECHNOLOGY
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC TEST REPORT

TEST REPORT NUMBER : CGZ3111214-01092-E



CTS (Guangzhou) Testing Service Technology Co., Ltd.
Building F, Dachuang industrial park, No.379, Zhongshan Dadao,
Guangzhou, China.



TEST REPORT FOR FCC 47 CFR PART 15 OCT, 2010 Radio frequency devices	
Report Reference No.	CGZ3111214-01092-E
Date of issue	19 December 2011
Testing Laboratory Name	CTS (Guangzhou) Testing Service Technology Co., Ltd.
Address	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
Testing location/ procedure	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's name	Del Ko Company
Address	Room 1310, Block B, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, N.T., Hong Kong
Test specification:	
Standard	47 CFR PART 15 OCT, 2010
Test Report Form No.	CTSEMC-1.0
TRF Originator	CTS (Guangzhou) Testing Service Technology Co., Ltd.
Master TRF	Dated 2009-01
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Test item description	Bamboo USB Hub
Trade Mark	/
Manufacturer	Del Ko Company
Model/Type reference	DB1110
Ratings	DC 5V By PC
Result	Positive

Compiled by:

Violet Lee / File administrators

Supervised by:

Tom Xiao / Technique principal

Approved by:

Vincent yao / Manager

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FCC -- T E S T R E P O R T

Test Report No. : CGZ3111214-01092-E

19 December 2011
Date of issue

Type / Model..... DB1110

EUT..... Bamboo USB Hub

Applicant..... Del Ko Company

Address..... Room 1310, Block B, Golden Industrial Building, 16-26 Kwai Tak Street,
Kwai Chung, N.T., Hong Kong

Telephone..... +852-2127 7370

Fax..... /

Contact..... Veronica Lau

Manufacturer..... Del Ko Company

Address..... Room 1310, Block B, Golden Industrial Building, 16-26 Kwai Tak Street,
Kwai Chung, N.T., Hong Kong

Telephone..... +852-2127 7370

Fax..... /

Contact..... Veronica Lau

Test report holder..... Del Ko Company

Address..... Room 1310, Block B, Golden Industrial Building, 16-26 Kwai Tak Street,
Kwai Chung, N.T., Hong Kong

Telephone..... +852-2127 7370

Fax..... /

Contact..... Veronica Lau

Test Result according to the standards on page 3: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2010
- ANSI C63.4-2009

2 SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	14 December 2011
Testing commenced on	17 December 2011
Testing concluded on	17 December 2011

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- ☐ - **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 3.
- ☐ - **does not** fulfil the FCC requirements cited on page 3.

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3 EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ☒ DC 5V By PC ☐ AC 115V/60Hz
☐ AC 120V/60 Hz

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1
Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- ☒ - Copy data

Operation mode 1: **Copy data**

Emissions tests.....: According to **47 CFR PART 15 OCT, 2010**, searching for the highest disturbance.

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3.4 EUT configuration

3.4.1. Monitor

M/N	:	E7722-f
S/N	:	CN-02W486-64180-3B7-01MP
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachable, 1.8m , 3Pin
Certificate	:	By DoC

3.4.2. Keyboard

M/N	:	SK-8110
S/N	:	CN-07N244-71616-37T-B293
Manufacturer	:	DELL
Power Cord	:	Shielded, Detachable
Certificate	:	By DoC

3.4.3. Personal Computer

M/N	:	DIMENSION 4600
S/N	:	CN-OTO486-42940-37M-00XB
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachable, 1.8m , 3Pin
FCC ID	:	By DoC

3.4.4. iPOD

M/N	:	A1367
S/N	:	C3WFH3VKDCP7
Manufacturer	:	iPOD
Power Cord	:	N/A
FCC ID	:	By ID

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4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CTS (Guangzhou) Testing Service Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CTS (Guangzhou) Testing Service Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 06, 2011 .

FCC-Registration No.: 971995

CTS (Guangzhou) Testing Service Technology Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.971995, July 21,2009.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	25-75 %
Atmospheric pressure:	86-106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	$\pm 1.22\text{dB}$	(1)
Power disturbance	30MHz~300MHz	$\pm 1.38\text{dB}$	(1)
Radiation emission (3m)	30MHz~300MHz	$\pm 3.14\text{dB}$	(1)
	300MHz~1000MHz	$\pm 3.18\text{dB}$	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.
- (2) The actual EUT tested items in this test report, only applies to this "measurement uncertainty" in part / all of the corresponding data.

4.7 Test Description

4.7.1 Description of Standards and Results

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	47 CFR PART 15 OCT, 2010 ANSI C63.4-2009	PASS Class B
Radiated Emission Test	47 CFR PART 15 OCT, 2010 ANSI C63.4-2009	PASS Class B

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5 TEST CONDITIONS AND RESULTS

5.1 Power Line Conducted Emission Test

For test instruments and accessories used see section 6 part 6.2.

5.1.1 Description of the test location

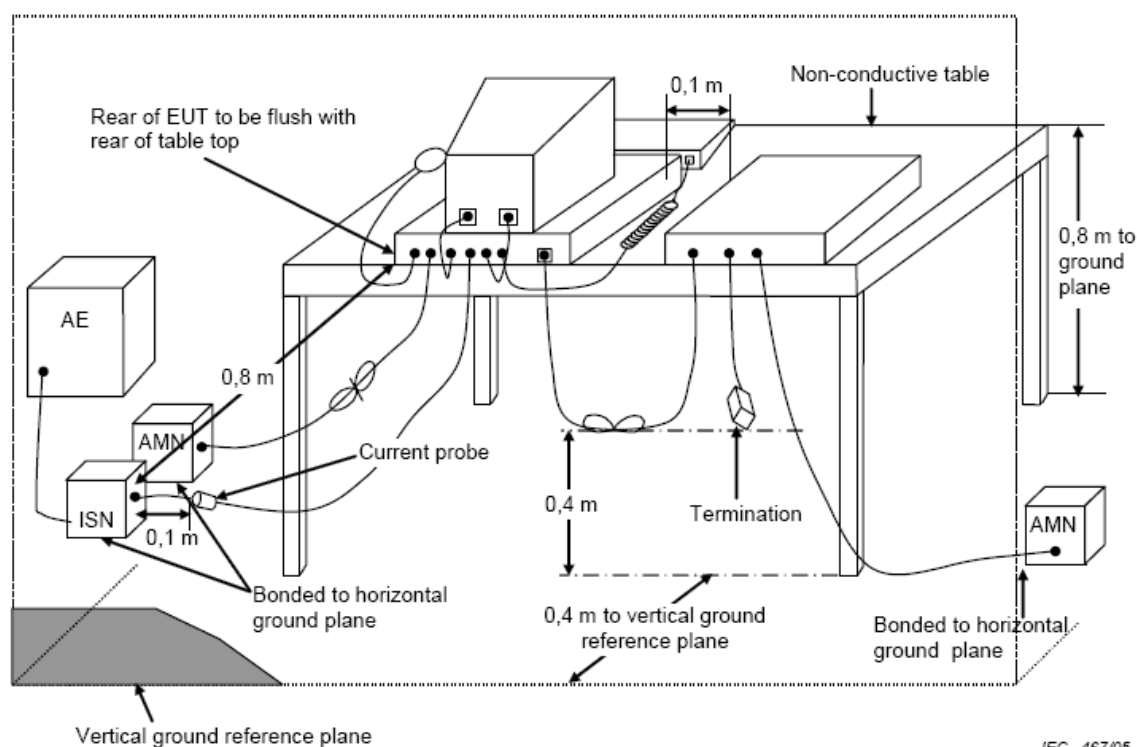
Test location : Shielding Room

5.1.2 Description of the test set-up

5.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

5.1.2.2 Block Diagram of Test Setup



5.1.3 Limits of disturbance (Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

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5.1.4 Test result

The requirements are	Fulfilled
Band width	9kHz
Frequency range	0.15kHz - 30 MHz
Min. limit margin	>5.04 dB at 0.15MHz - 30 MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

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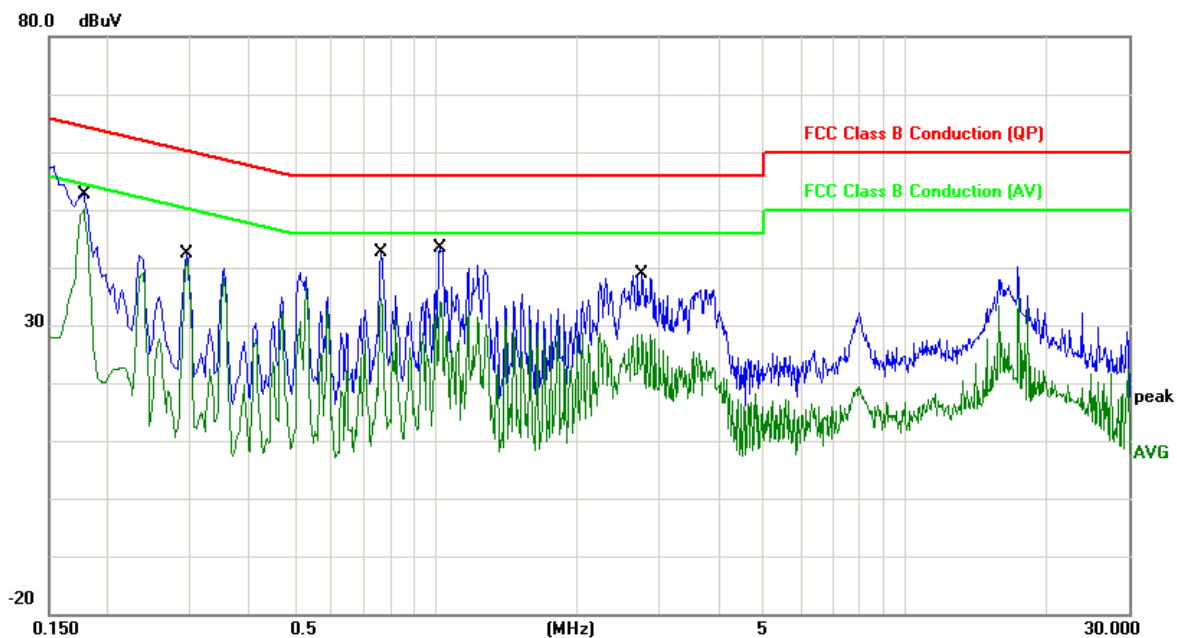
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5.1.5 Test protocol

Channel:	Copy data	Result:	■ - passed
Test point:	L		□ - not passed
Frequency range:	0.15~30MHz		

EUT	Bamboo USB Hub
Power Supply	DC 5V By PC
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Leeon
Test Specification	MODE NO: DB1110



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1780	9.99	40.61	50.60	64.58	-13.98	QP
2	0.1780	9.99	39.55	49.54	54.58	-5.04	AVG
3	0.2940	9.99	31.59	41.58	60.41	-18.83	QP
4	0.2940	9.99	31.06	41.05	50.41	-9.36	AVG
5	0.7660	10.10	30.62	40.72	56.00	-15.28	QP
6	0.7660	10.10	25.00	35.10	46.00	-10.90	AVG
7	1.0260	10.12	31.95	42.07	56.00	-13.93	QP
8	1.0260	10.12	23.92	34.04	46.00	-11.96	AVG
9	2.7620	10.04	25.58	35.62	56.00	-20.38	QP
10	2.7620	10.04	16.62	26.66	46.00	-19.34	AVG

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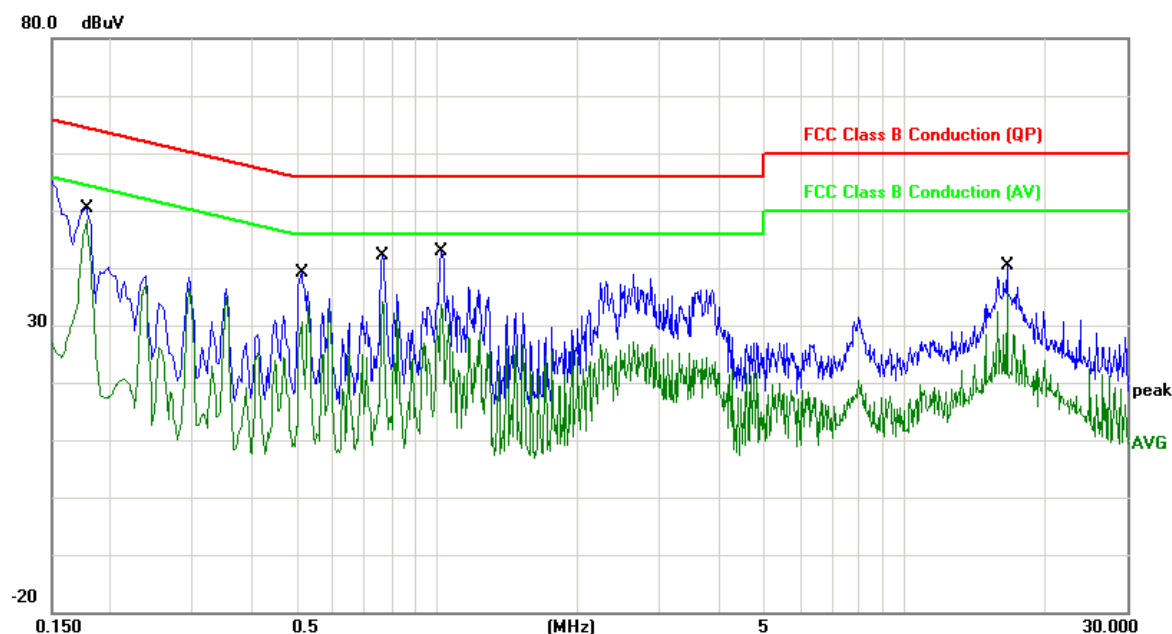
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Channel:	Copy data	Result:	■ - passed
Test point:	N		□ - not passed
Frequency range:	0.15~30MHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1780	9.99	38.70	48.69	64.58	-15.89	QP
2	0.1780	9.99	37.03	47.02	54.58	-7.56	AVG
3	0.5140	10.02	27.01	37.03	56.00	-18.97	QP
4	0.5140	10.02	19.87	29.89	46.00	-16.11	AVG
5	0.7660	10.10	30.24	40.34	56.00	-15.66	QP
6	0.7660	10.10	23.61	33.71	46.00	-12.29	AVG
7	1.0220	10.12	31.29	41.41	56.00	-14.59	QP
8	1.0220	10.12	22.57	32.69	46.00	-13.31	AVG
9	16.6460	10.20	25.77	35.97	60.00	-24.03	QP
10	16.6460	10.20	20.16	30.36	50.00	-19.64	AVG

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5.2 Radiated disturbance (electric field)

For test instruments and accessories used see section 6 part 6.1.

5.2.1 Description of the test location

Test location : Semi-Anechoic chamber

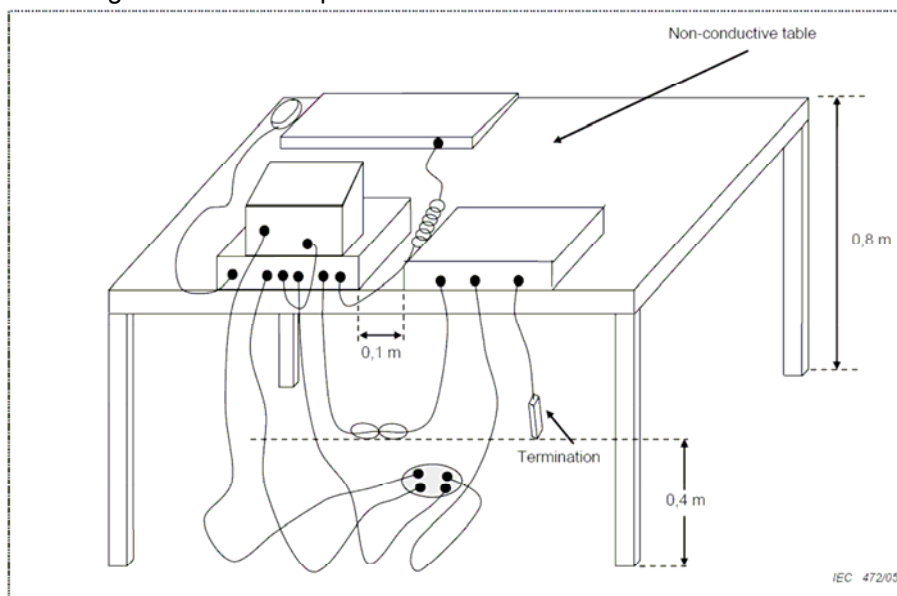
Test disturbance: 3 Meter

5.2.2 Description of the test set-up

5.2.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

5.2.2.2 Block Diagram of Test Setup



5.2.3 Limits of disturbance (Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	3	---	63.0
0.490 ~ 1.705	3	---	43.0
1.705 ~ 30	3	----	49.5

Frequency (MHz)	Distance (Meters)	Field Strengths Limits ($\text{dB}\mu\text{V/m}$)
30 ~ 88	3	40
88 ~ 216	3	43.5
216 ~ 960	3	46
960 ~ 1000	3	54

Note: (1) The tighter limit shall apply at the edge between two frequency bands.
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

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5.2.4 Test result

The requirements are	Fulfilled
Band width	120kHz
Frequency range	9KHz - 6GHz
Min. limit margin	>2.79 dB at 30MHz - 1000 MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

5.2.5 Test protocol

Operation mode 1	Copy data	Result:	<input checked="" type="checkbox"/> - passed
Remarks:	9KHz~30MHz		<input type="checkbox"/> - not passed

No.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	16.9578	43.08	49.50	-6.42	QP
2	1.2110	37.28	43.00	-5.72	QP
3	15.1548	42.20	49.50	-7.30	QP
4	3.9156	40.86	49.50	-8.64	QP
5	6.6202	45.85	49.50	-3.65	QP
6	25.9732	43.47	49.50	-6.03	QP

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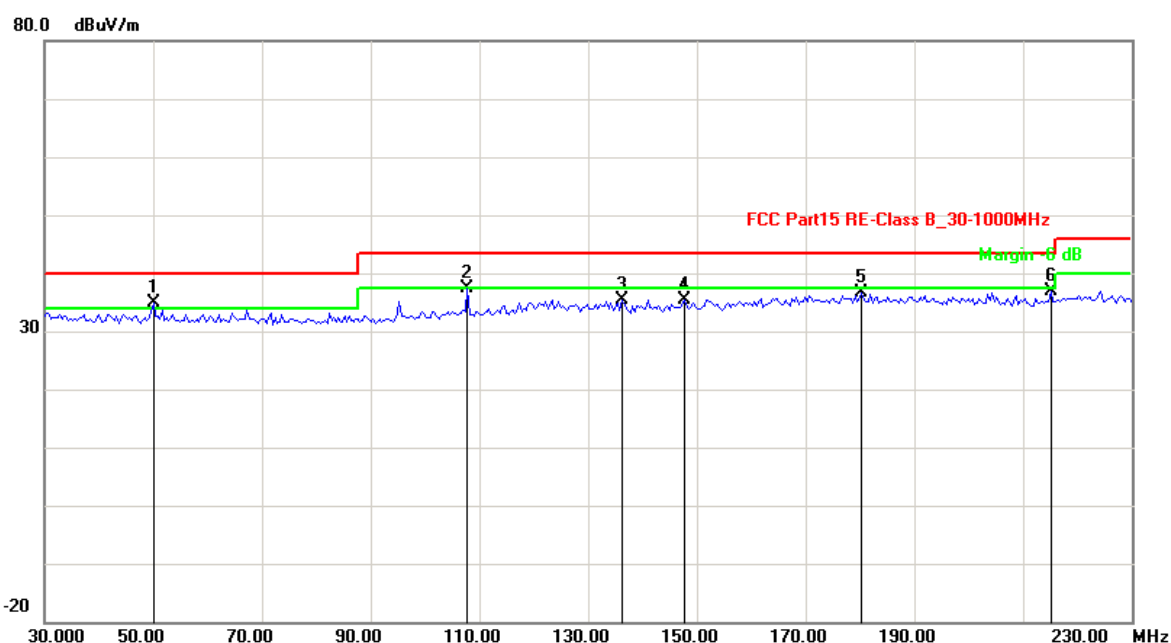
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Test point: Operation mode 1	Horizontal Copy data	Result:	■ - passed □ - not passed
Remarks:	N/A		

EUT	Bamboo USB Hub
Power Supply	DC 5V By PC
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Leeon
MODE NO:	DB1110



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	50.0401	5.30	29.49	34.79	40.00	-5.21	QP
2	107.7555	5.62	31.66	37.28	43.50	-6.22	QP
3	136.2124	6.48	28.88	35.36	43.50	-8.14	QP
4	147.8357	6.36	29.12	35.48	43.50	-8.02	QP
5	180.3006	7.45	29.29	36.74	43.50	-6.76	QP
6	215.1703	7.64	29.24	36.88	43.50	-6.62	QP

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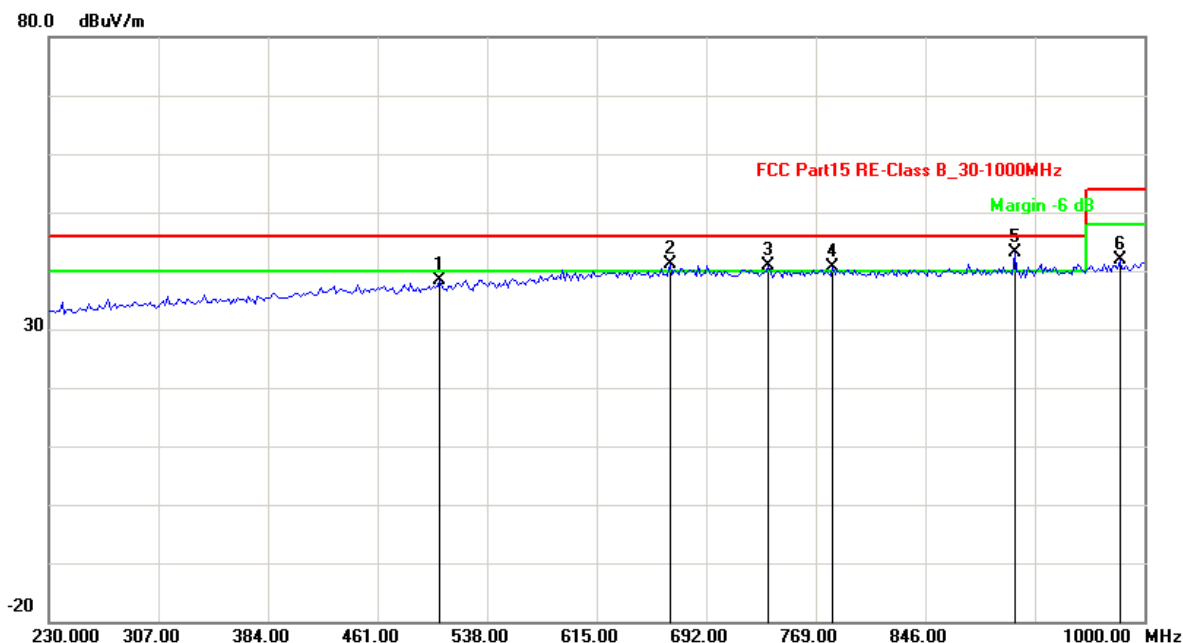
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	504.6693	8.61	29.83	38.44	46.00	-7.56	QP
2	666.6934	10.02	31.15	41.17	46.00	-4.83	QP
3	736.1323	10.25	30.60	40.85	46.00	-5.15	QP
4	780.8818	10.19	30.45	40.64	46.00	-5.36	QP
5	908.9579	10.50	32.71	43.21	46.00	-2.79	QP
6	983.0261	10.50	31.32	41.82	54.00	-12.18	QP

Above 1G

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3344.689	25.62	33.35	58.97	74.00	-15.03	peak
2	3344.689	25.62	21.35	46.97	54.00	-7.03	AVG
3	4086.172	28.61	31.81	60.42	74.00	-13.58	peak
4	4086.172	28.61	19.81	48.42	54.00	-5.58	AVG
5	4757.515	30.01	32.27	62.28	74.00	-11.72	peak
6	4757.515	30.01	18.27	48.28	54.00	-5.72	AVG
7	5408.818	32.38	31.41	63.79	74.00	-10.21	peak
8	5408.818	32.38	16.41	48.79	54.00	-5.21	AVG

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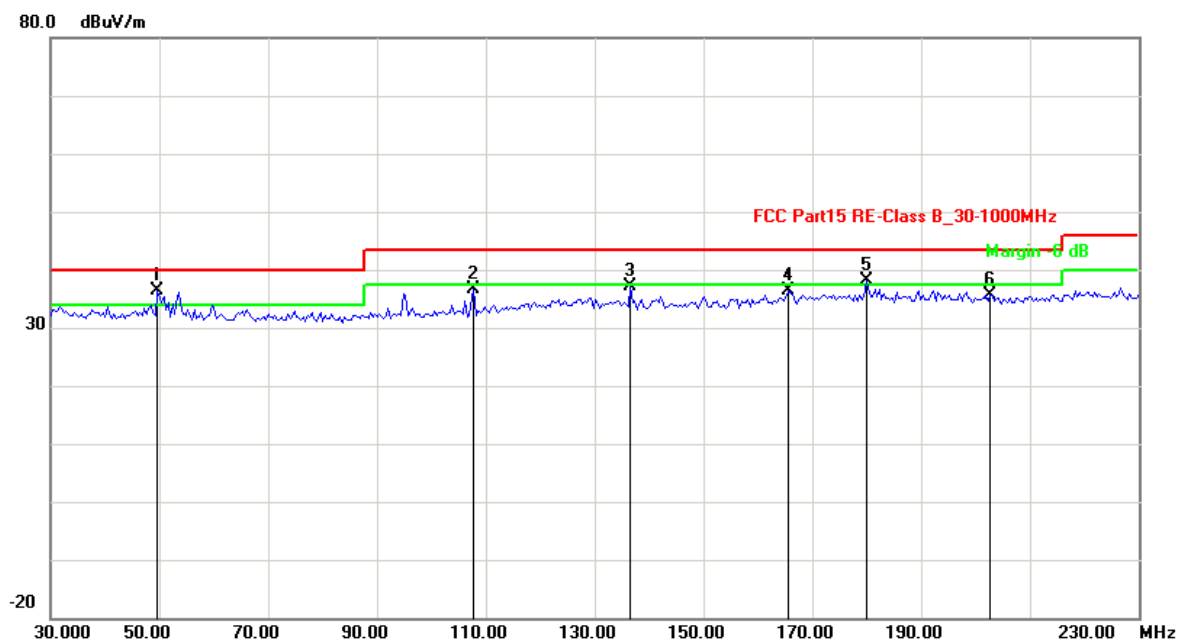
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Test point: Operation mode 1 Remarks:	Vertical Copy data N/A	Result:	<input checked="" type="checkbox"/> - passed <input type="checkbox"/> - not passed
--	------------------------------	---------	---

EUT	Bamboo USB Hub
Power Supply	DC 5V By PC
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Leeon
MODE NO:	DB1110



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	49.6393	5.31	31.09	36.40	40.00	-3.60	QP
2	107.7555	5.62	31.05	36.67	43.50	-6.83	QP
3	136.6132	6.47	30.75	37.22	43.50	-6.28	QP
4	165.4709	7.06	29.26	36.32	43.50	-7.18	QP
5	179.8998	7.45	30.64	38.09	43.50	-5.41	QP
6	202.7455	7.34	28.19	35.53	43.50	-7.97	QP

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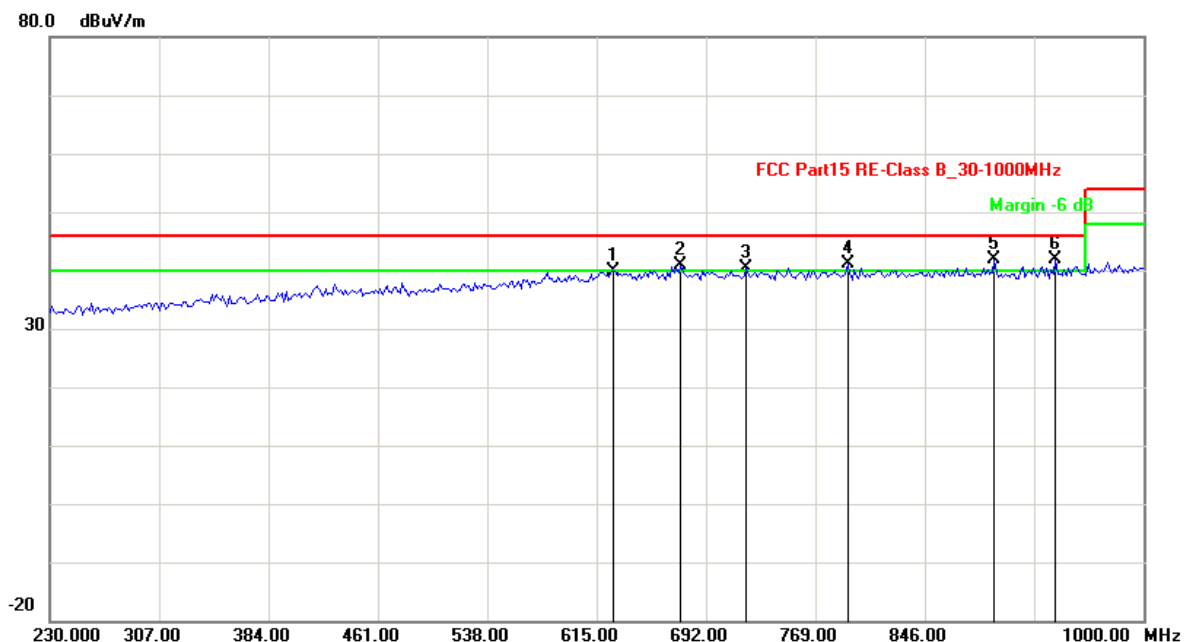
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	626.5731	9.75	30.16	39.91	46.00	-6.09	QP
2	674.4088	10.14	30.71	40.85	46.00	-5.15	QP
3	720.7014	10.27	30.11	40.38	46.00	-5.62	QP
4	791.6834	10.08	31.00	41.08	46.00	-4.92	QP
5	895.0701	10.50	31.38	41.88	46.00	-4.12	QP
6	938.2766	10.50	31.48	41.98	46.00	-4.02	QP

Above 1G

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2873.747	23.56	35.61	59.17	74.00	-14.83	peak
2	2873.747	23.56	23.61	47.17	54.00	-6.83	AVG
3	3725.451	27.16	32.46	59.62	74.00	-14.38	peak
4	3725.451	27.16	20.46	47.62	54.00	-6.38	AVG
5	4577.154	29.88	31.76	61.64	74.00	-12.36	peak
6	4577.154	29.88	18.76	48.64	54.00	-5.36	AVG
7	5829.659	33.71	33.63	67.34	74.00	-6.66	peak
8	5829.659	33.71	14.63	48.34	54.00	-5.66	AVG

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6 USED TEST EQUIPMENT

6.1

Radiated Emission Test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2011/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2011/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2011/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2011/12
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2011/12
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2011/12

6.2

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2011/12
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2011/12
3	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2011/12
4	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2011/12

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7 Deviation to test specifications

[NONE]

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8 Normative references

- 1 FCC CFR PART 15: OCT, 2010
Radio Frequency Devices
- 2 ANSI C 63.4 : 2009
American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage
Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

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9 Manufacturer/ Approval holder Declaration

The following identical model(s):

N/A

Belong to the tested device:

Product description: **Bamboo USB Hub**
Model name: **DB1110**

No additional models were tested.

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