



FCC REPORT

Applicant: Shenzhen YIDONG Technology Co., Ltd

Address of Applicant: Floor 1-5,Building B, Area B, Yuanfen Industrial Zone, Dalang,
Bao'an District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Flat Computer

Model No.: LT7033, EMR0672, S7

FCC ID: LU7-LT7033

Applicable standards: FCC CFR Title 47 Part 15 Subpart B: 2010

Date of sample receipt: 23 Aug., 2012

Date of Test: 24 to 07 Sep., 2012

Date of report issued: 07 Sep., 2012

Test Result : Pass *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Bruce Zhang

Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

2 Version

Version No.	Date	Description
00	07 Sep., 2012	Original

Prepared By:

Joe. Zhou

Project Engineer

Date:

07 Sep., 2012

Check By:

Bruce Zhang

Reviewer

Date:

07 Sep., 2012

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	Pass
Radiated Emissions	Part15.109	Pass

Pass: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	Shenzhen YIDONG Technology Co., Ltd
Address of Applicant:	Floor 1-5,Building B, Area B, Yuanfen Industrial Zone, Dalang, Bao'an District, Shenzhen, China
Manufacturer/ Factory:	Shenzhen YIDONG Technology Co., Ltd
Address of Manufacturer/ Factory:	Floor 1-5,Building B, Area B, Yuanfen Industrial Zone, Dalang, Bao'an District, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	Flat Computer
Model No.:	LT7033, EMR0672, S7
AC adapter:	Model: HNC050200U Input: AC 100-240V~50/60Hz 0.35A MAX Output:DC 5.0V 2.0A
Power supply:	DC 3.7V Li-ion battery
Remark	The LT7033, EMR0672 and S7 were identical inside, since the electrical circuit design, layout, components used and internal wiring were identical for the above items, with only difference being the printing. Base on the difference and the pre-scan, we selected the LT7033 for full test. The highest operation frequency is 1GHz.

5.3 Operating Modes

Operating mode	Detail description
Memory Play mode :	Keep the EUT in memory video Play mode
Downloading mode :	Keep the EUT in exchange data with PC by Mini SD and Memory
SD Play mode :	Keep the EUT in Mini SD video Play mode
Recording mode :	Keep the EUT in Recording mode.
Camera Mode :	Keep the EUT in Camera mode.
Pre-scan all modes above mentioned, the downloading mode was the worst case mode which has been shown in this report.	

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
HP	Printer	P1007	VNFP409729	DoC
HP	PC	Pro 2000MT	N/A	DoC
HP	MONITOR	CompaqLE1851WL	515682-070	DoC
HP	KEYBOARD	SK-2880	434820-AA2	DoC
HP	MOUSE	MOC5UO	N/A	DoC
Kingston	micro SD	TF(micro-SD)	N/A	N/A

5.5 Deviation from Standards

None

5.6 Abnormalities from Standard Conditions

None.

5.7 Other Information Requested by the Customer

None.

5.8 Test Facility

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

● **FCC —Registration No.: 817957**

China Certification & Inspection Services Co., Ltd., Shenzhen 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 817957, February 27, 2012

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of China Certification & Inspection Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

5.9 Test Location

All tests were performed at:

China Certification & Inspection Services Co., Ltd.

Address: 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-23118282

Fax: 0755-23116366

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2012	June 09 2013
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS202	N/A	N/A
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 04 2013
4	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May 30 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2012	Apr. 01 2013
7	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2012	Apr. 01 2013
8	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2012	Apr. 01 2013
9	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2012	Apr. 01 2013
10	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2012	Apr. 01 2013
11	Amplifier(10KHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2012	Apr. 01 2013
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 09 2013
13	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2012	Mar. 31 2013
14	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2012	Mar. 29 2013

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 09 2013
2	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2012	Apr 01 2013
3	LISN	CHASE	MN2050D	CCIS0074	Apr 01 2012	Apr 01 2013
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2012	Apr. 01 2013
5	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 09 2013
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

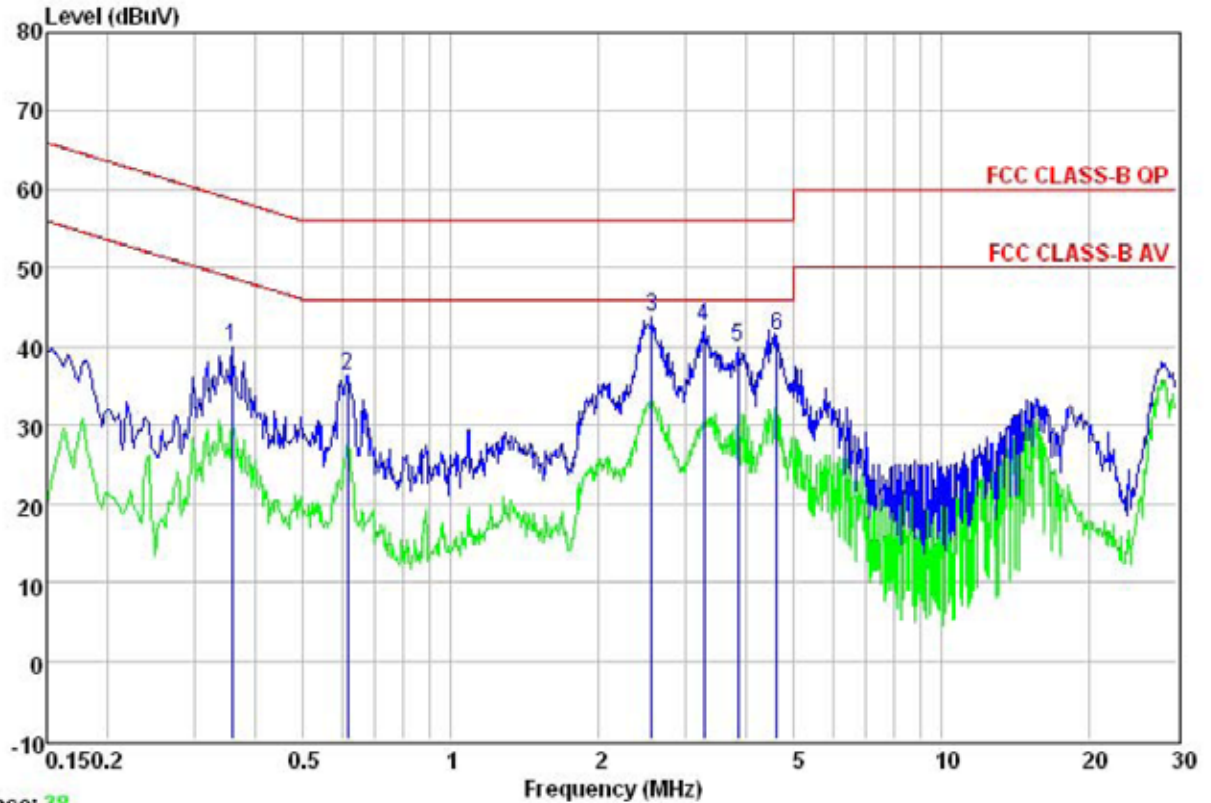
7 Test results and Measurement Data

7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107																
Test Method:	ANSI C63.4:2003																
Test Frequency Range:	150kHz to 30MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9kHz, VBW=30kHz																
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>0.5-30</td><td>60</td><td>50</td></tr></table>			Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	0.5-30	60	50
Frequency range (MHz)	Limit (dBμV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
0.5-30	60	50															
Test setup:	Reference Plane Test table/Insulation plane <i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m																
Test procedure	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. 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). 3. 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: 2003 on conducted measurement.																
Test environment:	Temp.: 25 °C	Humid.: 52%	Press.: 1 012mbar														
Measurement Record:	Uncertainty: 3.28dB																
Test Instruments:	Refer to section 6 for details																
Test mode:	Pre-scan all test mode in the section 5.3, and found the bleow mode which it is the worst case mode.																
Test results:	Pass																

Measurement data:

Line:

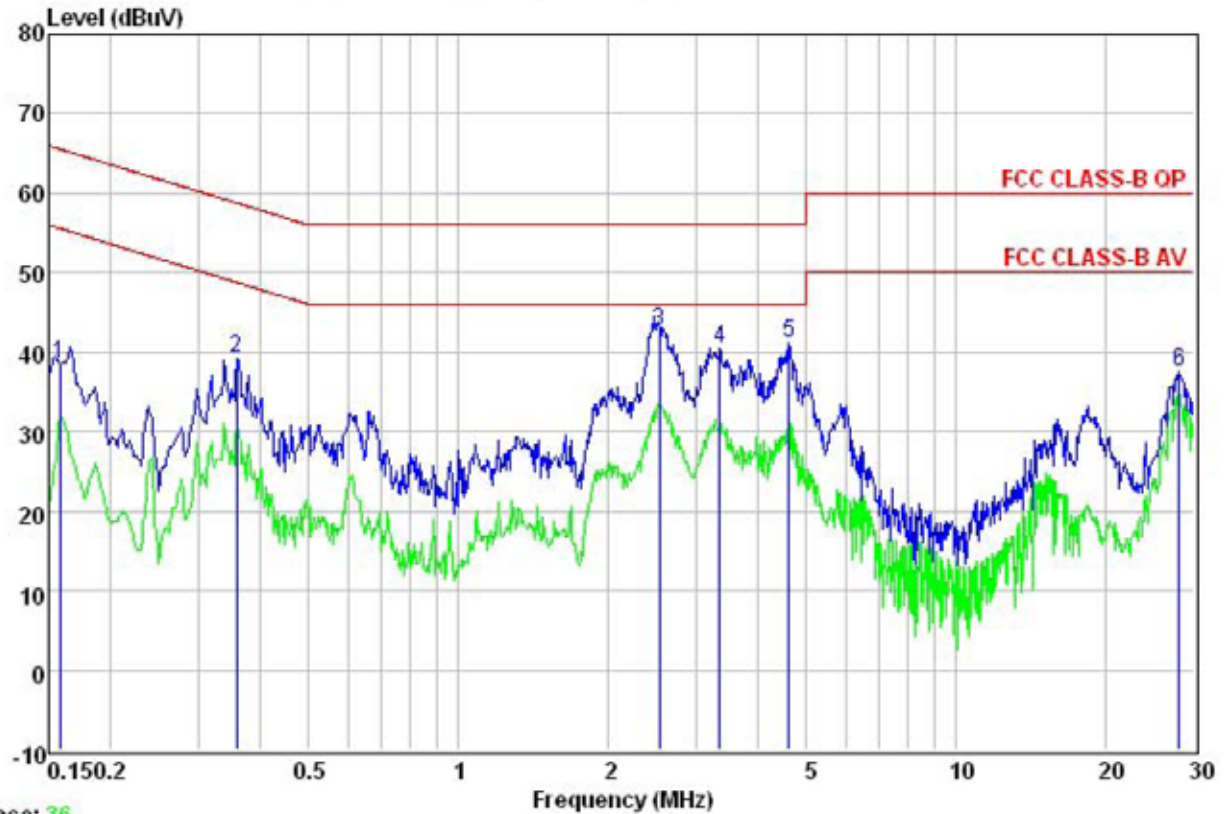


Trace: 38

Site : CCIS Conducted Test Site
 Condition : FCC CLASS-B QP LISN LINE
 Job NO. : 141RF
 Test Mode : downloading mode
 Test engineer: Winner

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.358	28.96	10.27	0.73	39.96	58.78	-18.82	QP
2	0.614	25.36	10.21	0.77	36.34	56.00	-19.66	QP
3	2.567	32.59	10.28	0.94	43.81	56.00	-12.19	QP
4	3.276	31.32	10.29	0.90	42.51	56.00	-13.49	QP
5	3.840	28.76	10.29	0.89	39.94	56.00	-16.06	QP
6	4.598	30.19	10.29	0.88	41.36	56.00	-14.64	QP

Neutral:



Trace: 36

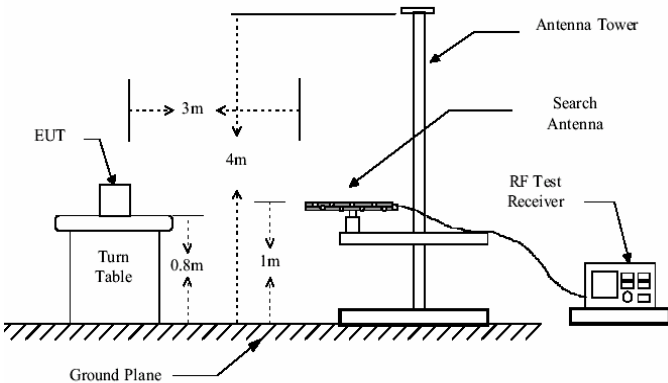
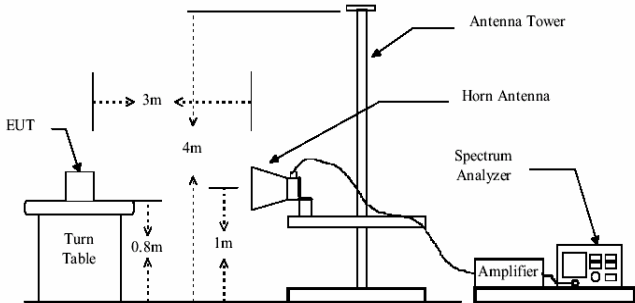
Site : CCIS Conducted Test Site
Condition : FCC CLASS-B QP LISN NEUTRAL
Job NO. : 141RF
Test Mode : downloading mode
Test engineer: Winner

	Read Freq	LISN Level	Cable Factor	Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.158	27.57	10.26	0.79	38.62	65.56	-26.94	QP
2	0.358	28.20	10.25	0.73	39.18	58.78	-19.60	QP
3	2.527	31.46	10.27	0.94	42.67	56.00	-13.33	QP
4	3.346	29.27	10.28	0.90	40.45	56.00	-15.55	QP
5	4.598	30.04	10.28	0.88	41.20	56.00	-14.80	QP
6	28.003	25.92	10.75	0.87	37.54	60.00	-22.46	QP

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

7.2 Radiated Emission

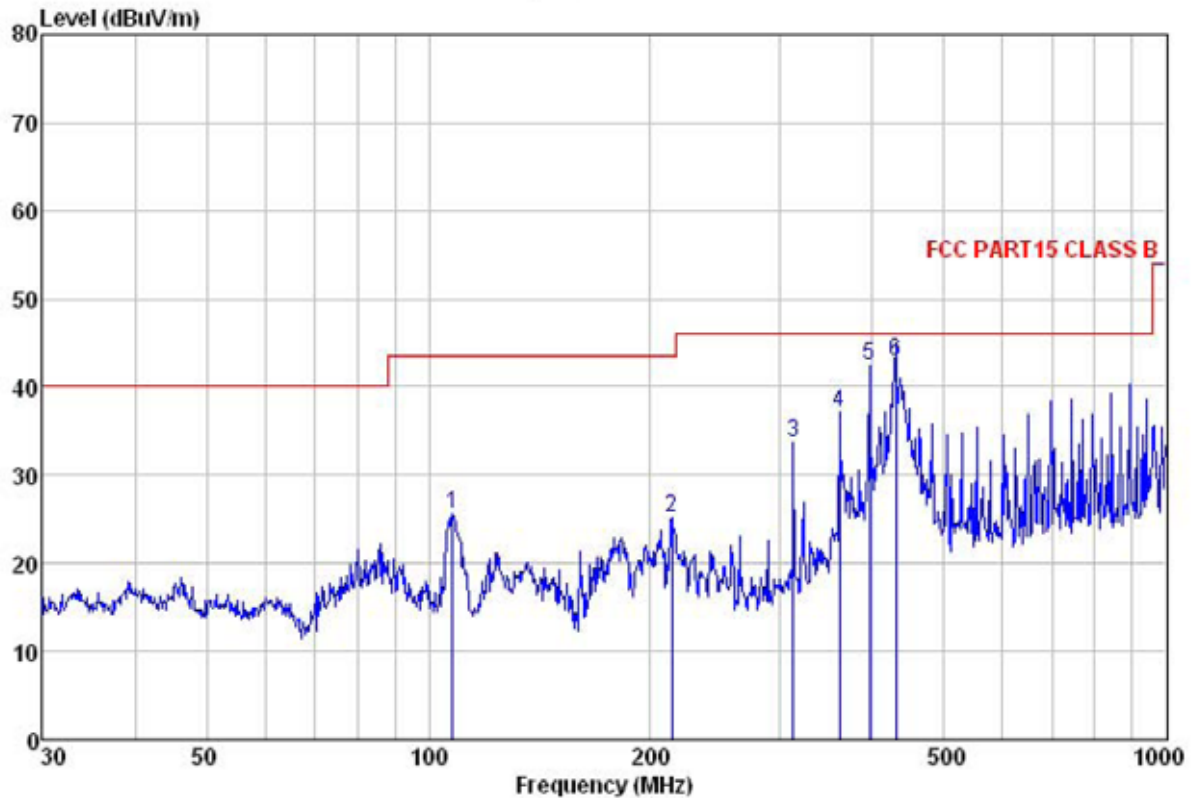
Test Requirement:	FCC Part15 B Section 15.109			
Test Method:	ANSI C63.4:2003			
Test Frequency Range:	30MHz to 6000MHz			
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Receiver setup:	Frequency	Detector	RBW	VBW
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
		Peak	1MHz	10Hz
Limit:	Frequency		Limit (dBuV/m @3m)	Remark
	30MHz-88MHz		40.0	Quasi-peak Value
	88MHz-216MHz		43.5	Quasi-peak Value
	216MHz-960MHz		46.0	Quasi-peak Value
	960MHz-1GHz		54.0	Quasi-peak Value
	Above 1GHz		54.0	Average Value
Test setup:			74.0	Peak Value
	Below 1GHz  Above 1GHz 			

Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Measurement Record:	Uncertainty: 4.88dB					
Test Instruments:	Refer to section 6 for details					
Test mode:	Pre-scan all test mode in the section 5.3, and found the bleed mode which it is the worst case mode.					
Test results:	Passed					

Measurement Data

■ Below 1G

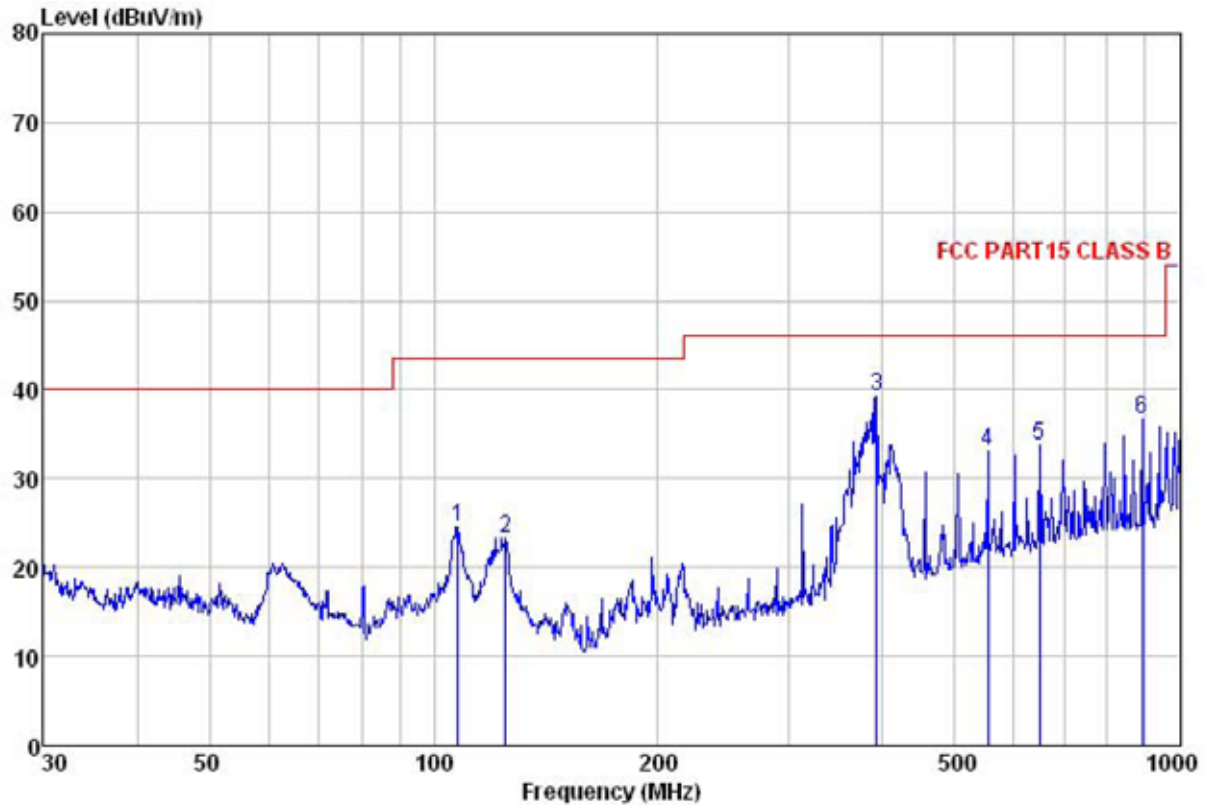
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) HORIZONTAL
 Job NO. : 141RF
 Model : downloading mode
 Test Engineer: Joe

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	107.888	40.95	12.44	2.03	29.92	25.50	43.50
2	213.763	41.12	11.00	2.85	29.75	25.22	43.50
3	312.179	46.89	13.22	2.98	29.49	33.60	46.00
4	360.448	49.31	14.43	3.10	29.73	37.11	46.00
5	396.242	54.18	14.97	3.08	29.88	42.35	46.00
6	429.523	54.59	15.51	3.15	30.27	42.98	46.00

Vertical:

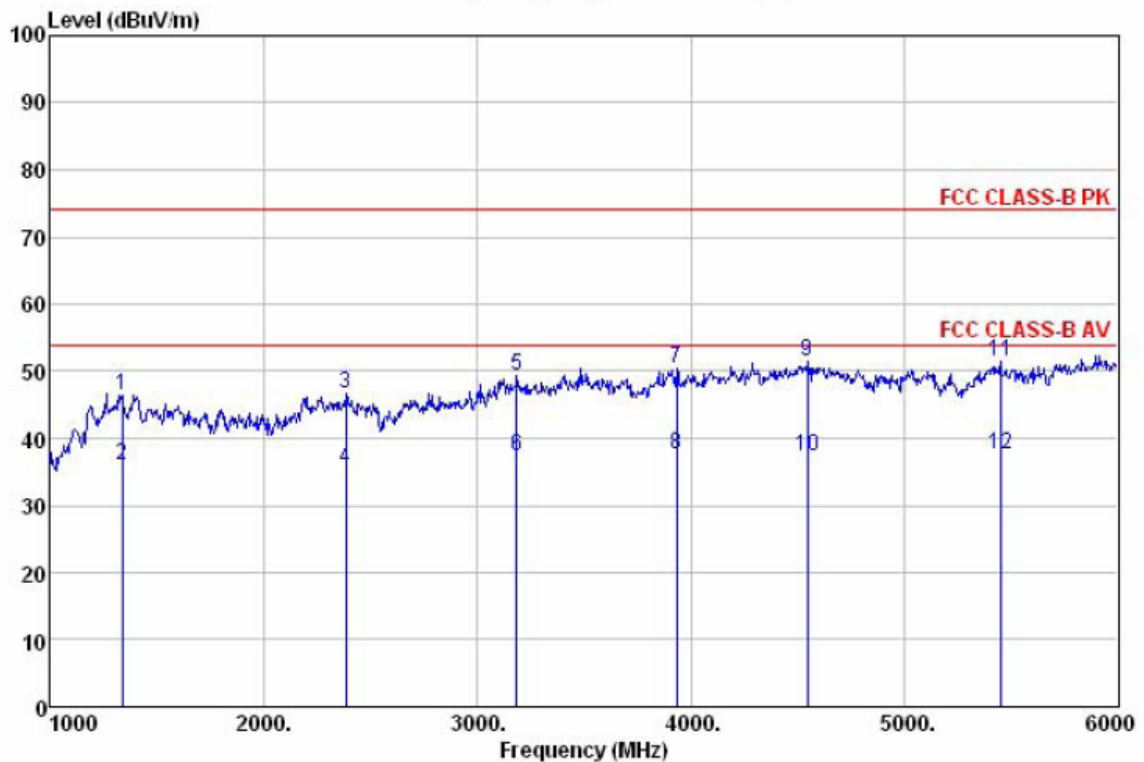


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) VERTICAL
 Job NO. : 141RF
 Model : downloading mode
 Test Engineer: Joe

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
		Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	107.888	39.98	12.44	2.03	29.92	24.53	43.50	-18.97 QP
2	125.007	40.96	9.70	2.22	29.62	23.26	43.50	-20.24 QP
3	392.095	51.12	14.87	3.08	29.87	39.20	46.00	-6.80 QP
4	552.883	42.03	17.62	3.89	30.54	33.00	46.00	-13.00 QP
5	649.660	41.77	18.64	3.86	30.58	33.69	46.00	-12.31 QP
6	890.728	42.04	21.00	3.80	30.17	36.67	46.00	-9.33 QP

■ Above 1G

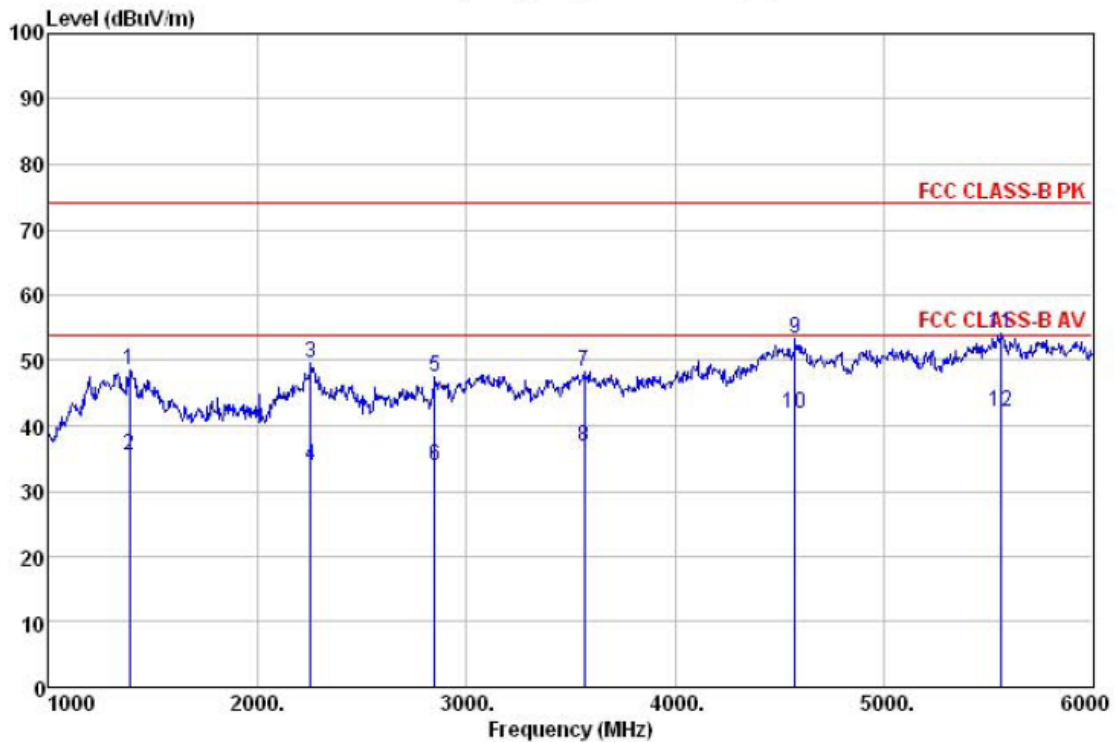
Vertical:



Site : 3m chamber
 Condition : FCC CLASS-B PK 3m BBHA9120(>1GHZ) VERTICAL
 Job No. : 141RF
 Test mode : downloading mode
 Test Engineer: Joe

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1335.000	38.55	25.65	2.80	20.58	46.42	74.00 -27.58 Peak
2	1335.000	28.19	25.65	2.80	20.58	36.06	54.00 -17.94 Average
3	2385.000	45.41	27.58	3.81	30.15	46.65	74.00 -27.35 Peak
4	2385.000	34.16	27.58	3.81	30.15	35.40	54.00 -18.60 Average
5	3185.000	45.12	28.76	4.55	29.20	49.23	74.00 -24.77 Peak
6	3185.000	33.16	28.76	4.55	29.20	37.27	54.00 -16.73 Average
7	3935.000	42.23	29.78	5.23	26.80	50.44	74.00 -23.56 Peak
8	3935.000	29.36	29.78	5.23	26.80	37.57	54.00 -16.43 Average
9	4545.000	39.35	30.86	5.70	24.45	51.46	74.00 -22.54 Peak
10	4545.000	25.10	30.86	5.70	24.45	37.21	54.00 -16.79 Average
11	5450.000	36.94	31.99	6.25	23.81	51.37	74.00 -22.63 Peak
12	5450.000	23.14	31.99	6.25	23.81	37.57	54.00 -16.43 Average

Horizontal:



Site : 3m chamber
Condition : FCC CLASS-B PK 3m BBHA9120(>1GHZ) HORIZONTAL
Job No. : 141RF
Test mode : downloading mode
Test Engineer: Joe

	Freq	ReadAntenna	Cable Preamp		Limit	Over		
	Level Factor	Loss Factor	Level	Line	Limit	Remark		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1385.000	41.68	25.50	2.86	21.39	48.65	74.00	-25.35 Peak
2	1385.000	28.60	25.50	2.86	21.39	35.57	54.00	-18.43 Average
3	2255.000	48.32	28.02	3.72	30.50	49.56	74.00	-24.44 Peak
4	2255.000	32.65	28.02	3.72	30.50	33.89	54.00	-20.11 Average
5	2850.000	44.98	28.38	4.20	30.10	47.46	74.00	-26.54 Peak
6	2850.000	31.50	28.38	4.20	30.10	33.98	54.00	-20.02 Average
7	3565.000	41.91	29.11	4.92	27.78	48.16	74.00	-25.84 Peak
8	3565.000	30.50	29.11	4.92	27.78	36.75	54.00	-17.25 Average
9	4575.000	41.14	30.92	5.72	24.43	53.35	74.00	-20.65 Peak
10	4575.000	29.60	30.92	5.72	24.43	41.81	54.00	-12.19 Average
11	5560.000	39.55	32.09	6.31	23.81	54.14	74.00	-19.86 Peak
12	5560.000	27.59	32.09	6.31	23.81	42.18	54.00	-11.82 Average

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor