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Report No.: FCC12-RTE072402
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TEST REPORT

Applicant: Archos SA

Address of Applicant: 12, Rue Ampere 91430 Igny France

Equipment Under Test (EUT)

Product Name: ChildPad

Model No.: AN7DG3B

Trade mark: ARNOVA

FCC ID: SOVAN7DG3B

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

Date of sample receipt: June 18, 2012

Date of Test: July 24, 2012

Date of report issued: July 24, 2012

Test Result : PASS *

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

Authorized Signature:



Kavin Yu
Laboratory Manager

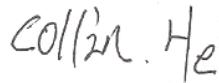
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production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

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

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2 Version

Version No.	Date	Description
00	July 24, 2012	Original

Prepared by:**Date:**

July 24, 2012

Project Engineer**Reviewed by:****Date:**

July 24, 2012

Reviewer

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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:	Archos SA
Address of Applicant:	12, Rue Ampere 91430 Igny France
Manufacturer:	Archos SA
Address of Manufacturer/	12, Rue Ampere 91430 Igny France

5.2 General Description of E.U.T.

Product Name:	ChildPad
Model No.:	AN7DG3B
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Power supply:	MODEL: ASSA1a-050150 Input: AC 100-240V, 50-60Hz, 0.45A Output: DC 5.0V, 1500mA DC 3.7V Li-ion Battery

5.3 Test mode and voltage

Test mode:	
Data Transfer mode	Data Transfer with PC
Test voltage:	AC 120V/60Hz

5.4 Test Facility

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

● **FCC —Registration No.: 600491**

Global United Technology 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 files. Registration 600491, July 20, 2010.

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

5.5 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd.
Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China
Tel: 0755-27798480
Fax: 0755-27798960

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
HP	Printer	CB495A	05257893	DoC
Lenovo	PC	OPTIPLEX745	GTS312	DoC
Lenovo	MONITOR	E178FPC	N/A	DoC
Lenovo	KEYBOARD	SK-8115	N/A	DoC
Lenovo	MOUSE	MOC5UO	N/A	DoC

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna.
Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

6 Test Instruments list

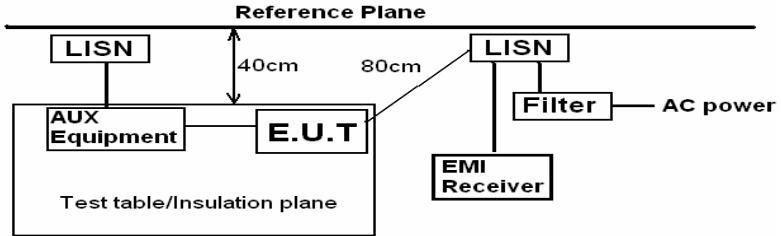
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2013
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 03 2012	Jul. 02 2013
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2012	Feb. 25 2013
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	Mar. 10 2012	Mar. 09 2013
6	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 03 2012	Jul. 02 2013
7	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 03 2012	Jul. 02 2013
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial cable	GTS	N/A	GTS210	Jul. 03 2012	Jul. 02 2013
10	Coaxial Cable	GTS	N/A	GTS211	Jul. 03 2012	Jul. 02 2013
11	Thermo meter	KTJ	TA328	GTS256	Jul. 06 2012	Jul. 05 2013

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS252	Sep. 08 2011	Sep. 07 2013
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 03 2012	Jul. 02 2013
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 03 2012	Jul. 02 2013
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 03 2012	Jul. 02 2013
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 03 2012	Jul. 02 2013
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 03 2012	Jul. 02 2013
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Thermo meter	KTJ	TA328	GTS233	Jul. 04 2012	Jul. 03 2013

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 10 2012	July 09 2013

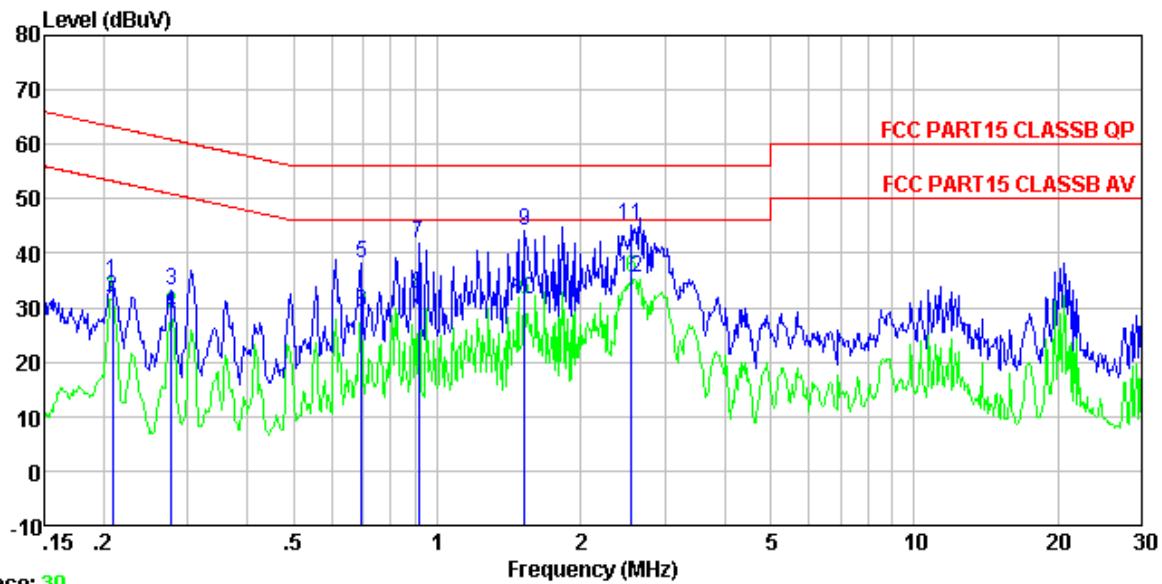
7 Test results and Measurement Data

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 border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <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> </tbody> </table>			Frequency range (MHz)	Limit (dB μ V)		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 (dB μ V)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
0.5-30	60	50															
Test procedure	<p>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. 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: 2003 on conducted measurement.</p>																
Test setup:	 <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar											
Measurement Record:	Uncertainty: ± 3.45 dB																
Test Instruments:	Refer to section 6 for details																
Test mode:	Data Transfer with PC																
Test results:	Pass																

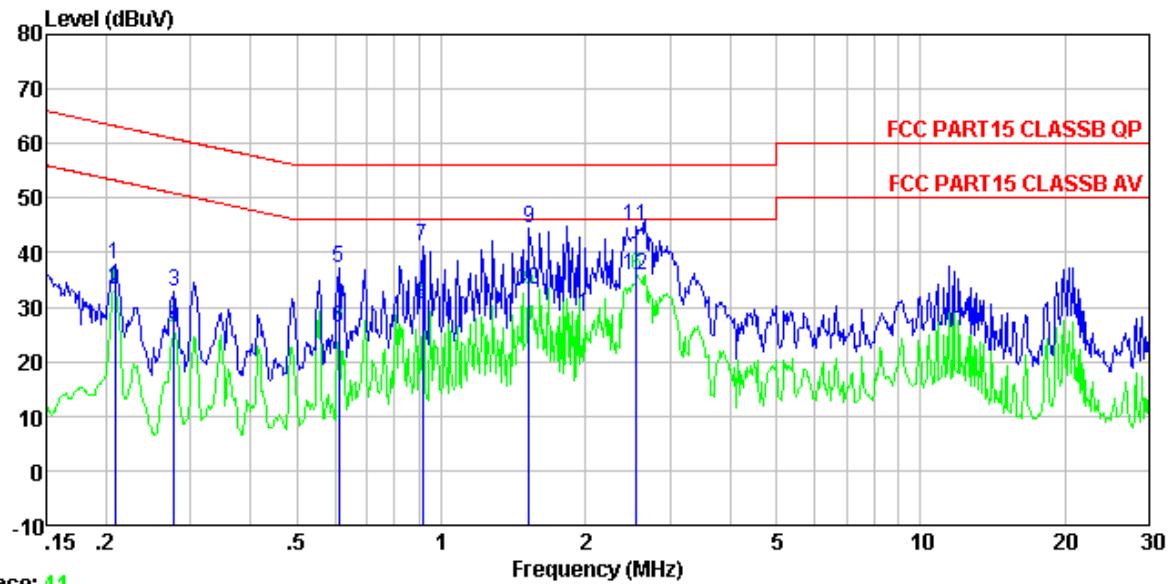
Measurement Data

Line:



Freq	Read	LISN	Cable	Limit	Over	Remark	
	MHz	dBuV	Factor	Loss	Level	Line	Limit
1	0.208	34.06	0.65	0.10	34.81	63.27	-28.46 QP
2	0.208	31.07	0.65	0.10	31.82	53.27	-21.45 Average
3	0.277	32.47	0.62	0.10	33.19	60.90	-27.71 QP
4	0.277	28.01	0.62	0.10	28.73	50.90	-22.17 Average
5	0.694	37.40	0.52	0.10	38.02	56.00	-17.98 QP
6	0.694	28.63	0.52	0.10	29.25	46.00	-16.75 Average
7	0.914	41.36	0.49	0.10	41.95	56.00	-14.05 QP
8	0.914	31.88	0.49	0.10	32.47	46.00	-13.53 Average
9	1.527	43.52	0.43	0.10	44.05	56.00	-11.95 QP
10	1.527	30.89	0.43	0.10	31.42	46.00	-14.58 Average
11	2.554	44.81	0.37	0.10	45.28	56.00	-10.72 QP
12	2.554	35.01	0.37	0.10	35.48	46.00	-10.52 Average

Neutral:



Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL

Job No. : 647RF

Test Mode : Data Transfer

Test Engineer: HuXiaohe

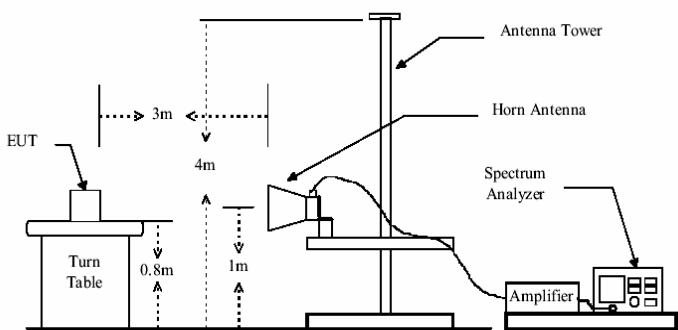
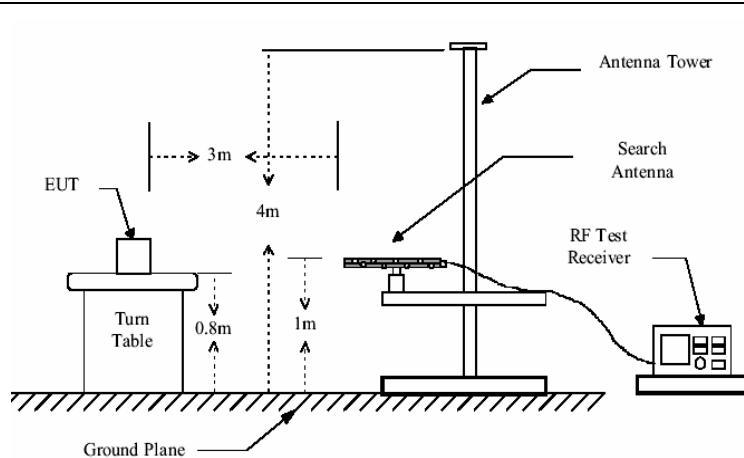
Freq	Read	LISN	Cable	Limit	Over	Remark	
	MHz	Level	Factor	Loss	Level		
1	0.208	37.08	0.65	0.10	37.83	63.27	-25.44 QP
2	0.208	32.53	0.65	0.10	33.28	53.27	-19.99 Average
3	0.277	32.01	0.62	0.10	32.73	60.90	-28.17 QP
4	0.277	25.33	0.62	0.10	26.05	50.90	-24.85 Average
5	0.611	36.45	0.53	0.10	37.08	56.00	-18.92 QP
6	0.611	25.46	0.53	0.10	26.09	46.00	-19.91 Average
7	0.914	40.66	0.49	0.10	41.25	56.00	-14.75 QP
8	0.914	29.93	0.49	0.10	30.52	46.00	-15.48 Average
9	1.527	43.86	0.43	0.10	44.39	56.00	-11.61 QP
10	1.527	32.79	0.43	0.10	33.32	46.00	-12.68 Average
11	2.554	44.45	0.37	0.10	44.92	56.00	-11.08 QP
12	2.554	35.37	0.37	0.10	35.84	46.00	-10.16 Average

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 5GHz								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
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					
		74.0		Peak Value					
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. 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 rota 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 setup:	Below 1GHz								



Test environment:	Temp.: 25 °C	Humid.: 52%	Press.: 1 012mbar
Measurement Record:	Uncertainty: $\pm 4.5\text{dB}$		
Test Instruments:	Refer to section 6 for details		
Test mode:	Data Transfer with PC		
Test results:	Passed		

Note:

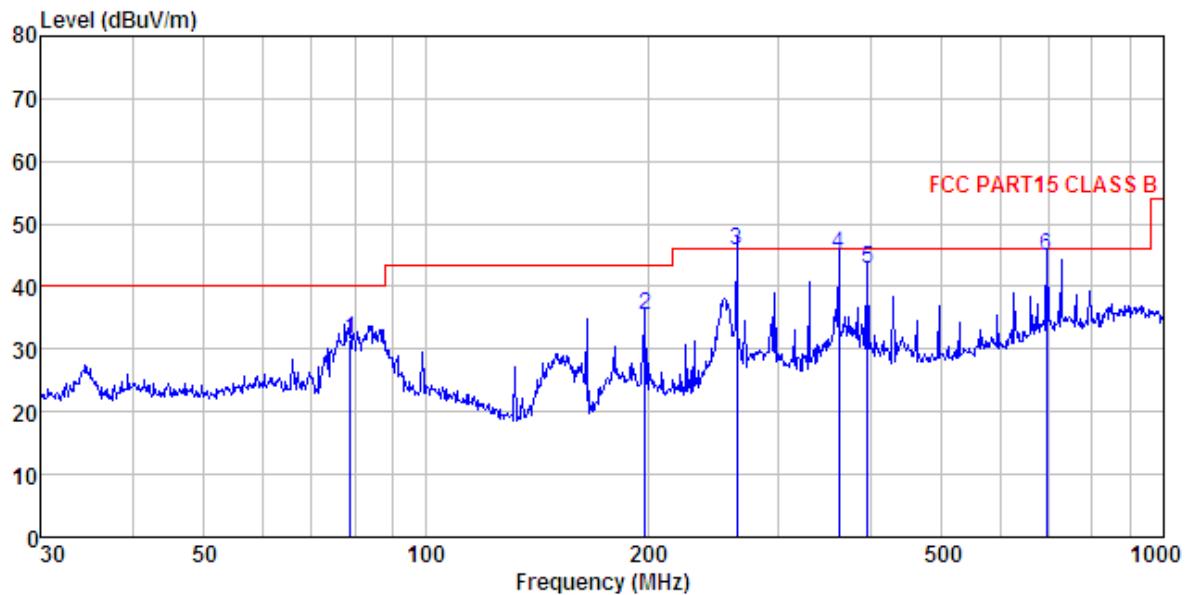
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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

Measurement Data

Below 1GHz

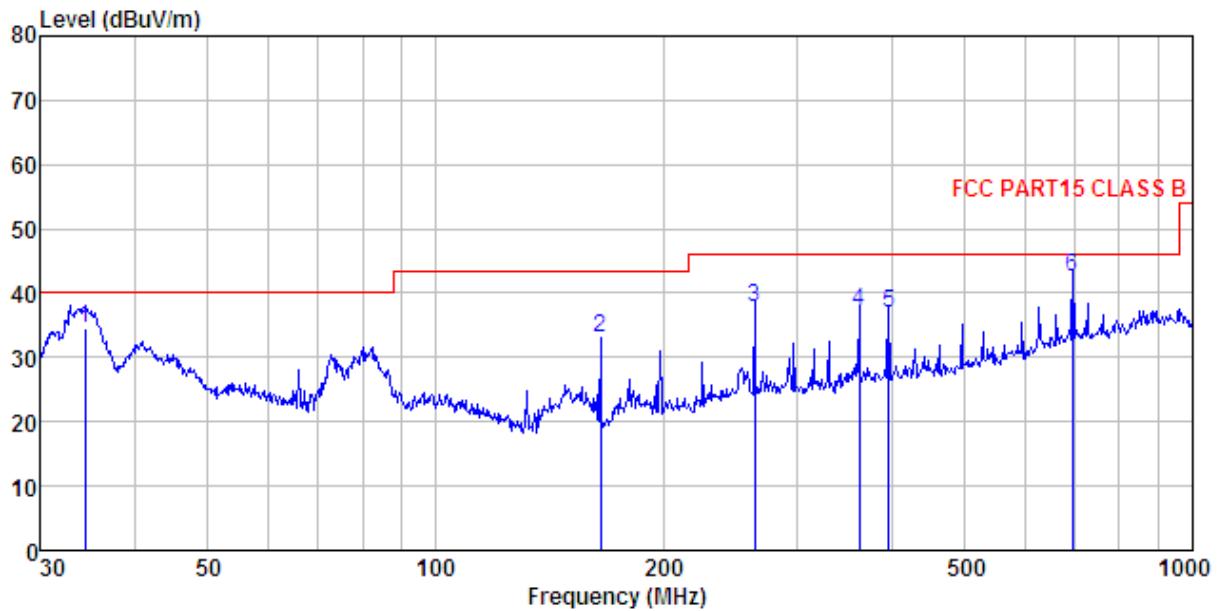
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 HORIZONTAL
 Job No. : 647RF
 Test Mode : Data Transfer
 Test Engineer: Sam

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dB _{UV}	dB/m		dB	dB _{UV} /m	dB _{UV} /m	dB	
1	78.965	50.52	11.74	1.02	31.77	31.51	40.00	-8.49 QP
2	197.893	52.12	13.57	1.83	32.13	35.39	43.50	-8.11 QP
3	263.819	60.60	15.22	2.19	32.17	45.84	46.00	-0.16 QP
4	362.985	58.04	16.45	2.68	31.99	45.18	46.00	-0.82 QP
5	396.242	55.00	17.01	2.83	31.90	42.94	46.00	-3.06 QP
6	694.417	50.10	21.74	4.07	31.18	44.73	46.00	-1.27 QP

Vertical:

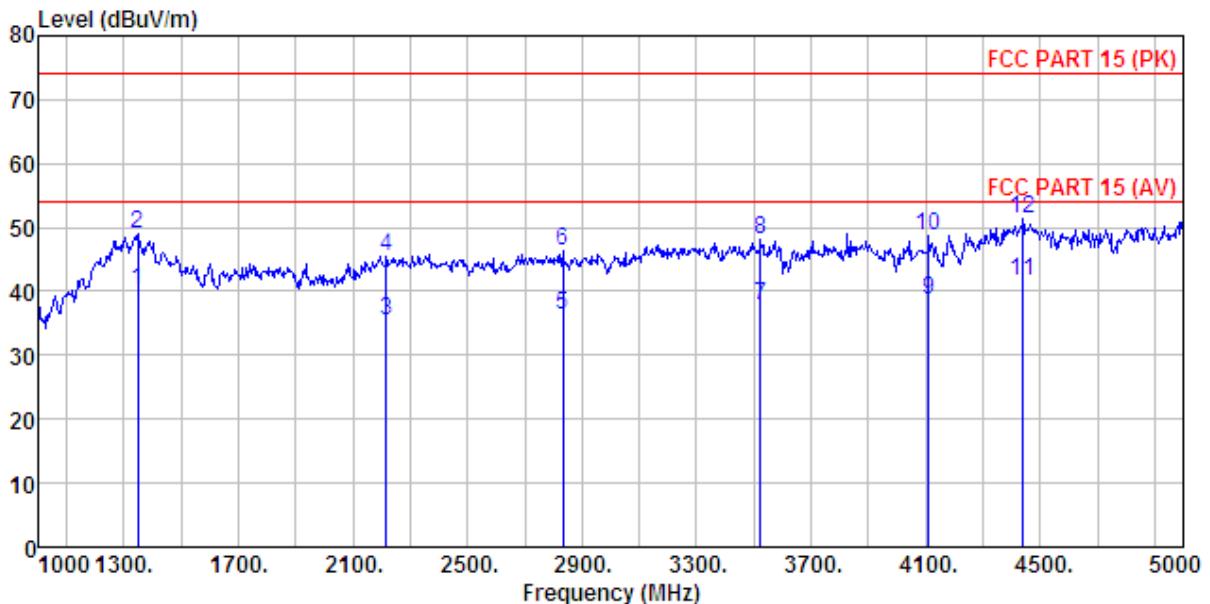


Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 VERTICAL
Job No. : 647RF
Test Mode : Data Transfer
Test Engineer: Sam

Freq MHz	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	
1 34.396	50.30	15.80	0.60	32.06	34.64	40.00	-5.36 QP
2 164.908	51.57	11.86	1.66	32.03	33.06	43.50	-10.44 QP
3 263.819	52.56	15.22	2.19	32.17	37.80	46.00	-8.20 QP
4 362.985	50.08	16.45	2.68	31.99	37.22	46.00	-8.78 QP
5 396.242	49.09	17.01	2.83	31.90	37.03	46.00	-8.97 QP
6 694.417	47.91	21.74	4.07	31.18	42.54	46.00	-3.46 QP

Above 1GHz

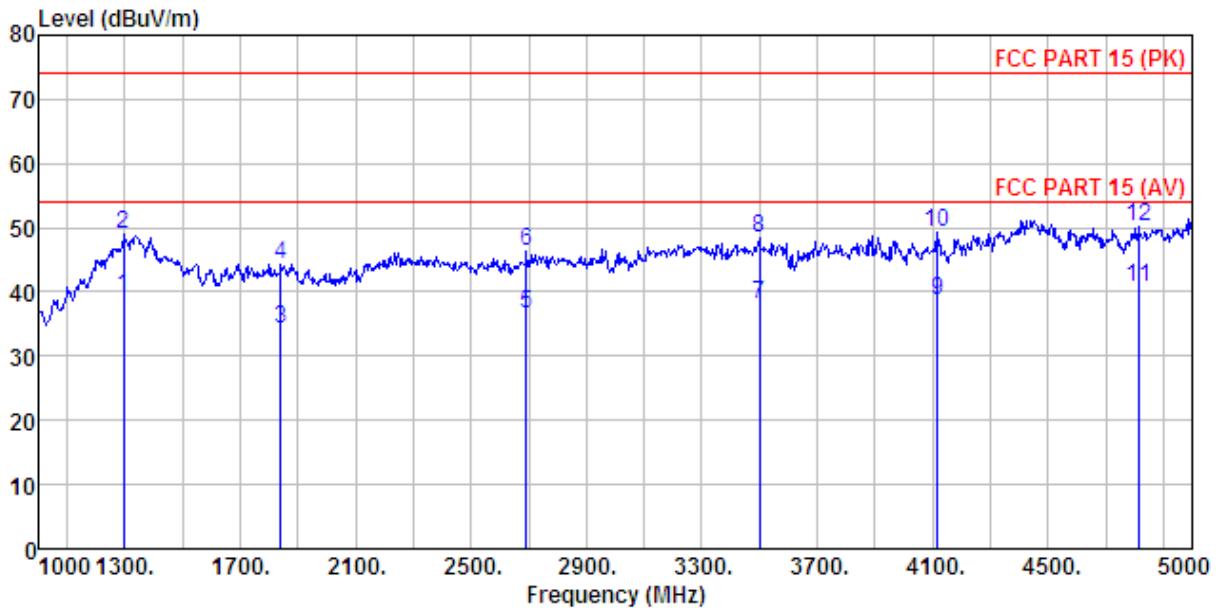
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL
 Job No. : 647RF
 Test Mode : Data Transfer
 Test Engineer: Sam

Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
					Level	Factor		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1348.000	30.55	25.70	4.58	20.79	40.04	54.00	-13.96 Average
2	1348.000	39.60	25.70	4.58	20.79	49.09	74.00	-24.91 Peak
3	2216.000	32.76	27.98	5.20	30.61	35.33	54.00	-18.67 Average
4	2216.000	42.88	27.98	5.20	30.61	45.45	74.00	-28.55 Peak
5	2832.000	32.38	28.39	5.78	30.19	36.36	54.00	-17.64 Average
6	2832.000	42.23	28.39	5.78	30.19	46.21	74.00	-27.79 Peak
7	3524.000	29.87	29.04	7.01	28.02	37.90	54.00	-16.10 Average
8	3524.000	40.03	29.04	7.01	28.02	48.06	74.00	-25.94 Peak
9	4112.000	26.74	29.95	7.97	26.14	38.52	54.00	-15.48 Average
10	4112.000	37.02	29.95	7.97	26.14	48.80	74.00	-25.20 Peak
11	4440.000	26.86	31.20	8.29	24.73	41.62	54.00	-12.38 Average
12	4440.000	36.47	31.20	8.29	24.73	51.23	74.00	-22.77 Peak

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL
 Job No. : 647RF
 Test Mode : Data Transfer
 Test Engineer: Sam

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Freq	Level	Factor	Loss	Level	Line	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1296.000	29.32	25.62	4.54	20.22	39.26	54.00 -14.74 Average
2	1296.000	39.07	25.62	4.54	20.22	49.01	74.00 -24.99 Peak
3	1840.000	32.86	25.48	4.88	29.05	34.17	54.00 -19.83 Average
4	1840.000	43.03	25.48	4.88	29.05	44.34	74.00 -29.66 Peak
5	2692.000	33.14	28.12	5.67	30.42	36.51	54.00 -17.49 Average
6	2692.000	42.92	28.12	5.67	30.42	46.29	74.00 -27.71 Peak
7	3500.000	30.31	28.96	6.95	28.09	38.13	54.00 -15.87 Average
8	3500.000	40.64	28.96	6.95	28.09	48.46	74.00 -25.54 Peak
9	4116.000	26.84	29.95	7.99	26.14	38.64	54.00 -15.36 Average
10	4116.000	37.40	29.95	7.99	26.14	49.20	74.00 -24.80 Peak
11	4812.000	24.65	31.78	8.61	24.17	40.87	54.00 -13.13 Average
12	4812.000	34.04	31.78	8.61	24.17	50.26	74.00 -23.74 Peak

-----end-----