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Report No.: FCC11-RTE092803
Page 1 of 25

TEST REPORT

Applicant: Archos SA
Address of Applicant: 12 Rue Ampere Igny France 91430
Equipment Under Test (EUT)
Product Name: A80H
Model No.: 9081
Trade mark: Archos
FCC ID: SOV9081
Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2010
Date of sample receipt: Aug. 26, 2011
Date of Test: Aug. 29-Sep. 27, 2011
Date of report issued: Sep. 28, 2011
Test Result : PASS *

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

Authorized Signature:

Kevin 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	2011-09-28	Original

Prepared by:

Collin He

Date:

2011-09-28

Project Engineer

Reviewed by:

Hans Hu

Date:

2011-09-28

Reviewer



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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	PASS
Readiated 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 Igny France 91430
Manufacturer:	Archos SA
Address of Manufacturer:	12 Rue Ampere Igny France 91430
Factory:	Excelsior Electronics
Address of Factory:	Sam Tuen Management Zone, Houjie, Dongguan Guangdong PRC

5.2 General Description of E.U.T.

Product Name:	A80H
Model No.:	9081
Power supply:	Model:MD-TRC0620DC Input: AC 100-240V 0.3A(MAX)50/60Hz Output: DC 5.0V1.5A

5.3 Test mode and voltage

Test mode:	
PC mode	Keep the EUT exchange data 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
DELL	PC	OPTIPLEX745	GTS312
DELL	KEYBOARD	SK-8115	N/A
DELL	MOUSE	N/A	N/A
Cannon	Printer	IP1600	N/A
ELNEC	Encoder	Superpro/5000	N/A

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.

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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 2012
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. 04 2011	Jul. 03 2012
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2011	Feb. 25 2012
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 30 2011	June 29 2012
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2012
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Apr. 01 2011	Mar. 31 2012
9	Coaxial Cable	GTS	N/A	GTS211	Apr. 01 2011	Mar. 31 2012
9	Coaxial cable	GTS	N/A	GTS210	Apr. 01 2011	Mar. 31 2012
11	Coaxial Cable	GTS	N/A	GTS212	Apr. 01 2011	Mar. 31 2012
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 04 2011	Jul. 03 2012
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 04 2011	Jul. 03 2012
14	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 30 2011	June 29 2012
15	Band filter	Amindeon	82346	GTS219	June 30 2011	June 29 2012

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	Jul. 04 2011	Jul. 03 2012
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 04 2011	Jul. 03 2012
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 04 2011	Jul. 03 2012
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 04 2011	Jul. 03 2012
5	Coaxial Cable	GTS	N/A	GTS227	Apr. 01 2011	Mar. 31 2012
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

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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:	Frequency range (MHz)	Limit (dBμV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test procedure	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.		
Test setup:	<p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test environment:	Temp.: 24 °C	Humid.: 51%	Press.: 1 012mbar
Measurement Record:	Uncertainty: ± 3.45dB		
Test Instruments:	Refer to section 6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

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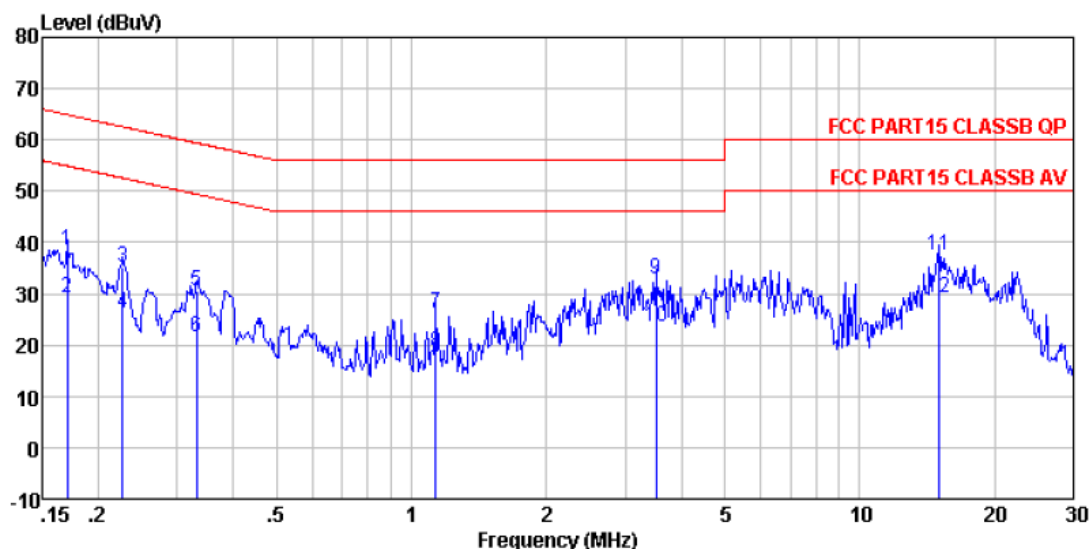


Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Line:

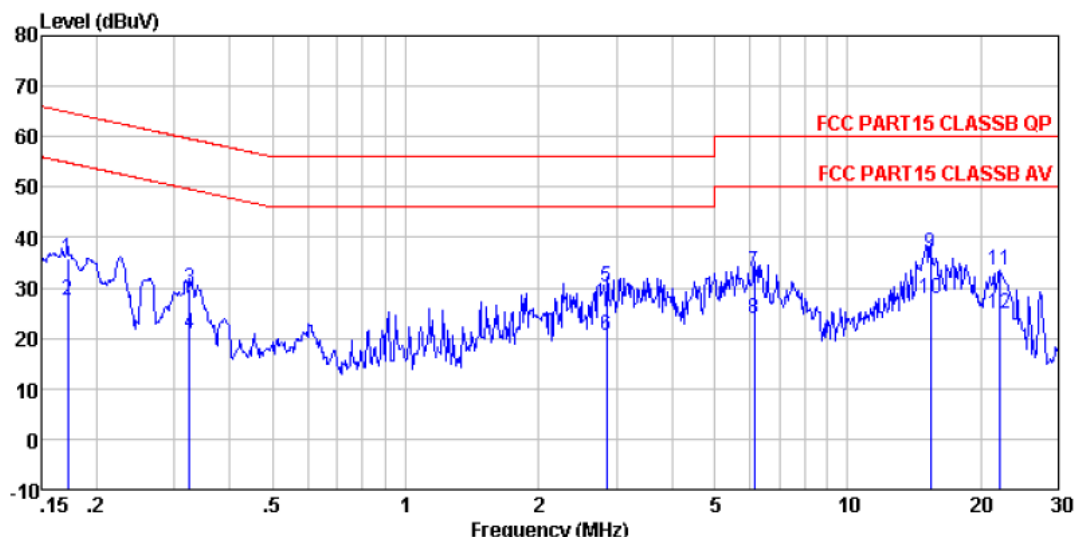


Condition : FCC PART15 CLASSB QP LISN(2011) LINE
Job No : 733IT
Test mode : PC mode
Test engineer: Collin

	Read	LISN	Cable		Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.170	37.56	0.67	0.10	38.33	64.94	-26.61 QP
2	0.170	28.44	0.67	0.10	29.21	54.94	-25.73 Average
3	0.227	34.51	0.64	0.10	35.25	62.57	-27.32 QP
4	0.227	25.47	0.64	0.10	26.21	52.57	-26.36 Average
5	0.332	29.85	0.60	0.10	30.55	59.40	-28.85 QP
6	0.332	20.98	0.60	0.10	21.68	49.40	-27.72 Average
7	1.135	25.73	0.46	0.10	26.29	56.00	-29.71 QP
8	1.135	18.13	0.46	0.10	18.69	46.00	-27.31 Average
9	3.509	32.48	0.34	0.10	32.92	56.00	-23.08 QP
10	3.509	23.15	0.34	0.10	23.59	46.00	-22.41 Average
11	14.986	37.07	0.18	0.20	37.45	60.00	-22.55 QP
12	14.986	28.81	0.18	0.20	29.19	50.00	-20.81 Average



Neutral:



Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL
Job No : 733IT
Test mode : PC mode
Test engineer: Collin

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.172	35.22	0.67	0.10	35.99	64.86	-28.87	QP
2	0.172	26.84	0.67	0.10	27.61	64.86	-37.25	Average
3	0.325	29.03	0.60	0.10	29.73	59.57	-29.84	QP
4	0.325	20.18	0.60	0.10	20.88	59.57	-38.69	Average
5	2.854	29.59	0.36	0.10	30.05	56.00	-25.95	QP
6	2.854	20.18	0.36	0.10	20.64	56.00	-35.36	Average
7	6.153	32.68	0.28	0.12	33.08	60.00	-26.92	QP
8	6.153	23.56	0.28	0.12	23.96	60.00	-36.04	Average
9	15.388	36.46	0.17	0.20	36.83	60.00	-23.17	QP
10	15.388	27.55	0.17	0.20	27.92	60.00	-32.08	Average
11	22.180	33.29	0.13	0.21	33.63	60.00	-26.37	QP
12	22.180	24.56	0.13	0.21	24.90	60.00	-35.10	Average

Notes:

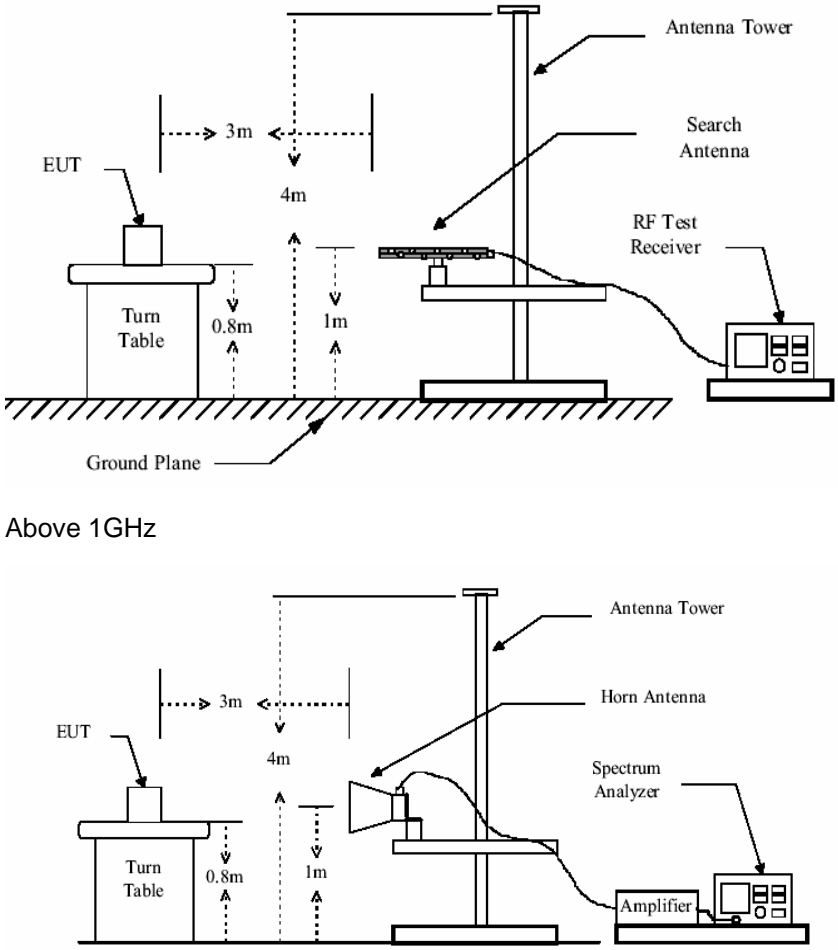
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



7.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109																																					
Test Method:	ANSI C63.4:2003																																					
Test Frequency Range:	30MHz to 12000MHz																																					
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																																					
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value														
	Frequency	Detector	RBW	VBW	Remark																																	
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																																	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value																																	
Peak		1MHz	10Hz	Average Value																																		
Limit:	<table><tr><td colspan="2">Frequency</td><td>Limit (dBuV/m @3m)</td><td colspan="2">Remark</td></tr><tr><td colspan="2">30MHz-88MHz</td><td>40.0</td><td colspan="2">Quasi-peak Value</td></tr><tr><td colspan="2">88MHz-216MHz</td><td>43.5</td><td colspan="2">Quasi-peak Value</td></tr><tr><td colspan="2">216MHz-960MHz</td><td>46.0</td><td colspan="2">Quasi-peak Value</td></tr><tr><td colspan="2">960MHz-1GHz</td><td>54.0</td><td colspan="2">Quasi-peak Value</td></tr><tr><td colspan="2" rowspan="2">Above 1GHz</td><td>54.0</td><td colspan="2">Average Value</td></tr><tr><td>74.0</td><td colspan="2">Peak Value</td></tr></table>					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	
	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:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. 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.</p> <p>d. 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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. 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.</p>																																					
Test setup:	Below 1GHz																																					

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	 <p>Above 1GHz</p>
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar
Measurement Record:	Uncertainty: ± 4.5dB
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.3 for details
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:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

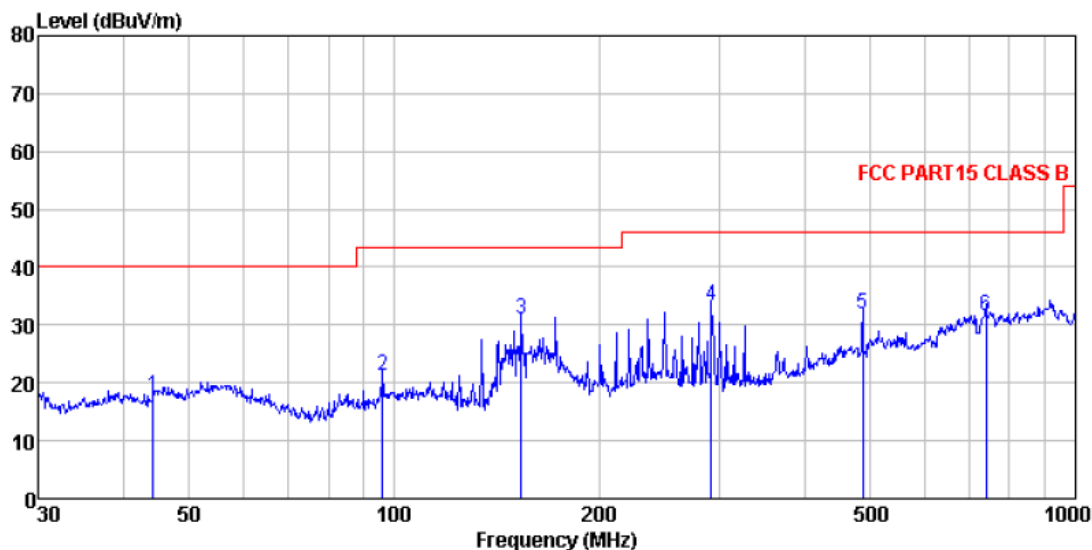
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Measurement Data

Below 1GHz:

Horizontal:

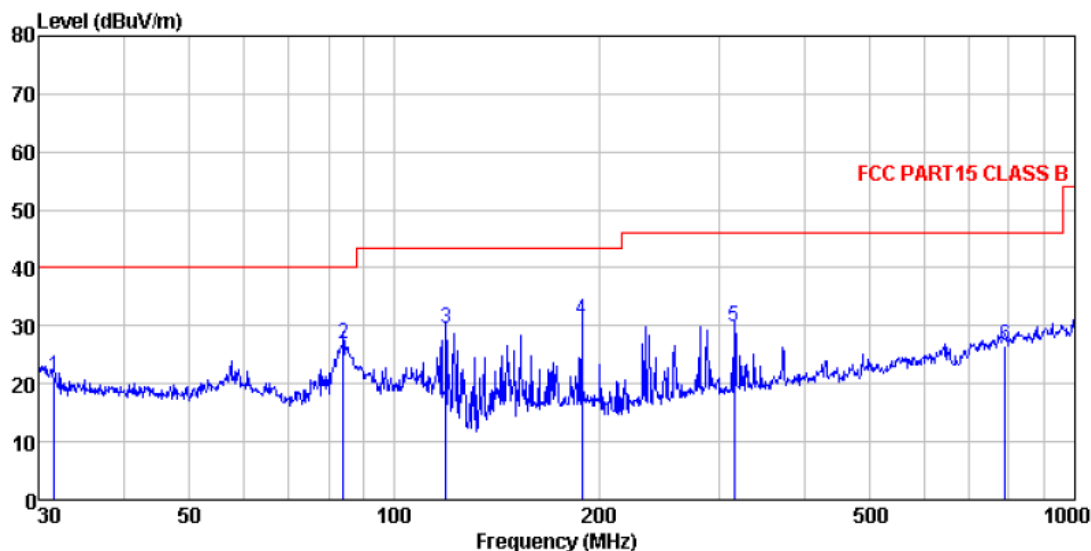


Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-NEW HORIZONTAL
Job No. : 733IT
Test Mode : PC Mode
Test Engineer: Collin

	Freq MHz	ReadAntenna		Cable Preamp		Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
		Level	Factor	Loss	Factor				
		dBuV	dB/m	dB	dB				
1	44.28	37.63	11.41	0.66	32.08	17.62	40.00	-22.38	QP
2	96.10	40.74	11.05	1.12	31.71	21.20	43.50	-22.30	QP
3	153.74	51.19	10.39	1.54	32.00	31.12	43.50	-12.38	QP
4	292.06	52.11	11.49	2.05	32.30	33.35	46.00	-12.65	QP
5	487.32	43.57	17.62	2.38	31.71	31.86	46.00	-14.14	QP
6	739.66	37.81	22.51	3.02	31.61	31.73	46.00	-14.27	QP



Vertical:



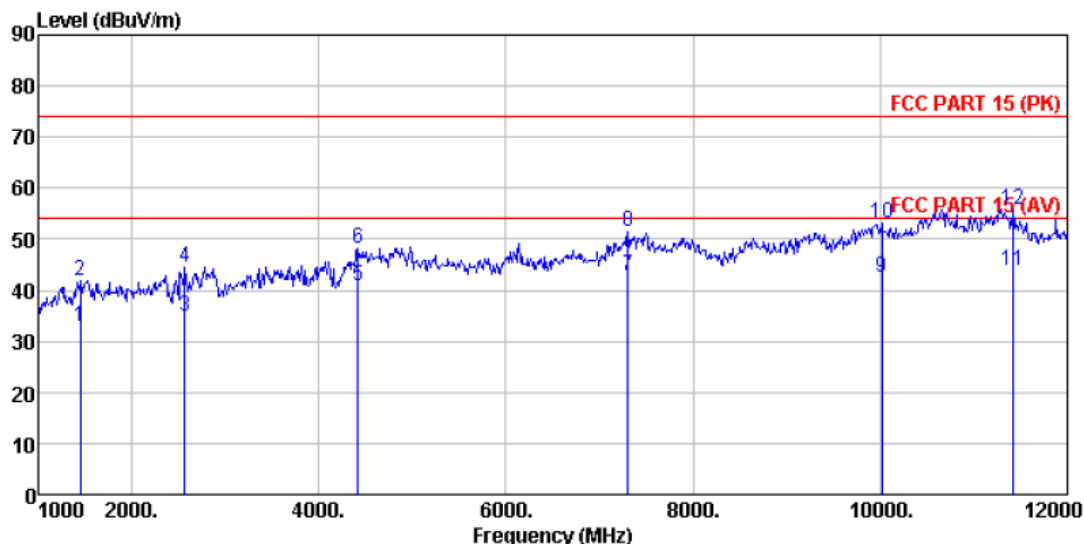
Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-NEW VERTICAL
Job No. : 733IT
Test Mode : PC Mode
Test Engineer: Collin

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
		Level	Factor	Loss Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	31.62	40.35	12.59	0.61	32.23	21.32	40.00
2	84.11	47.34	10.33	1.00	31.79	26.88	40.00
3	119.02	52.77	7.22	1.31	31.81	29.49	43.50
4	188.41	51.77	9.58	1.72	32.20	30.87	43.50
5	315.48	48.21	11.73	2.10	32.30	29.74	46.00
6	790.62	36.18	18.82	3.13	31.51	26.62	46.00



Above 1GHz:

Horizontal:



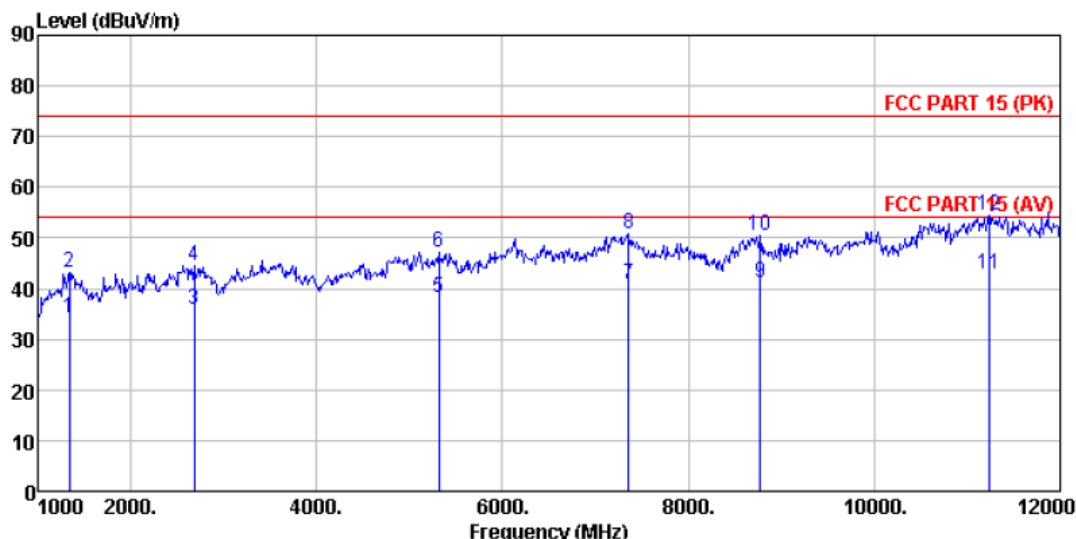
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL
Job No. : 733IT
Test Mode : PC mode
Test Engineer: Collin

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1448.00	27.48	25.35	2.46	22.34	32.95	54.00	-21.05	Average
2	1448.00	36.43	25.35	2.46	22.34	41.90	74.00	-32.10	Peak
3	2568.00	34.18	27.68	3.61	30.62	34.85	54.00	-19.15	Average
4	2568.00	43.96	27.68	3.61	30.62	44.63	74.00	-29.37	Peak
5	4416.00	29.67	31.13	4.68	24.77	40.71	54.00	-13.29	Average
6	4416.00	37.12	31.13	4.68	24.77	48.16	74.00	-25.84	Peak
7	7300.00	26.34	36.33	6.90	26.58	42.99	54.00	-11.01	Average
8	7300.00	34.87	36.33	6.90	26.58	51.52	74.00	-22.48	Peak
9	10016.00	19.51	39.12	9.11	25.19	42.55	54.00	-11.45	Average
10	10016.00	30.17	39.12	9.11	25.19	53.21	74.00	-20.79	Peak
11	11416.00	18.55	39.92	10.11	24.81	43.77	54.00	-10.23	Average
12	11416.00	30.48	39.92	10.11	24.81	55.70	74.00	-18.30	Peak

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Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL
Job No. : 733IT
Test Mode : PC mode
Test Engineer: Collin

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	Level	Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	1336.00	26.78	25.69	2.41	20.52	34.36	54.00 -19.64 Average
2	1336.00	35.70	25.69	2.41	20.52	43.28	74.00 -30.72 Peak
3	2680.00	34.52	28.08	3.70	30.45	35.85	54.00 -18.15 Average
4	2680.00	43.24	28.08	3.70	30.45	44.57	74.00 -29.43 Peak
5	5312.00	24.58	31.69	5.71	23.83	38.15	54.00 -15.85 Average
6	5312.00	33.58	31.69	5.71	23.83	47.15	74.00 -26.85 Peak
7	7356.00	24.17	36.45	6.92	26.70	40.84	54.00 -13.16 Average
8	7356.00	33.99	36.45	6.92	26.70	50.66	74.00 -23.34 Peak
9	8770.00	22.29	36.93	8.25	26.19	41.28	54.00 -12.72 Average
10	8770.00	31.49	36.93	8.25	26.19	50.48	74.00 -23.52 Peak
11	11234.00	17.52	40.11	10.00	24.69	42.94	54.00 -11.06 Average
12	11234.00	29.06	40.11	10.00	24.69	54.48	74.00 -19.52 Peak

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