



**Shenzhen EBO Technology Co., Ltd.**

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Report No.: FCC13-RTE012802  
Page 1 of 19

# TEST REPORT

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

## Equipment Under Test (EUT)

**Product Name:** GT70  
**Model No.:** AN7G4  
**Trade mark:** ARCHOS  
**FCC ID:** SOVAN7G4  
**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B:2011  
**Date of sample receipt:** January 17, 2013  
**Date of Test:** January 24-25, 2013  
**Date of report issued:** January 28, 2013  
**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.

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## 2 Version

Version No.	Date	Description
00	January 28, 2013	Original

Prepared by:

*Hank. Yan*

Date:

January 28, 2013

**Project Engineer**

Reviewed by:

*Hans. Hu*

Date:

January 28, 2013

**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 EUT

Product Name:	GT70
Model No.:	AN7G4
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Power supply:	Model No.:HND050200X Input: AC 100~240V~50/60Hz 0.35A MAX Output: 5.0V 2A DC 3.7V Li-ion Battery

### 5.3 Test mode and voltage

Test mode:	
PC mode	Keep the EUT in Data Transfer with PC mode.
Test voltage:	AC 120V/60Hz



## 5.4 Test Facility

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

- **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. to ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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 our 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 Host	M6900	EA05257893	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	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. 03 2012	Jul. 02 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

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## 7 Test Results and Measurement Data

### 7.1 Conducted Emissions

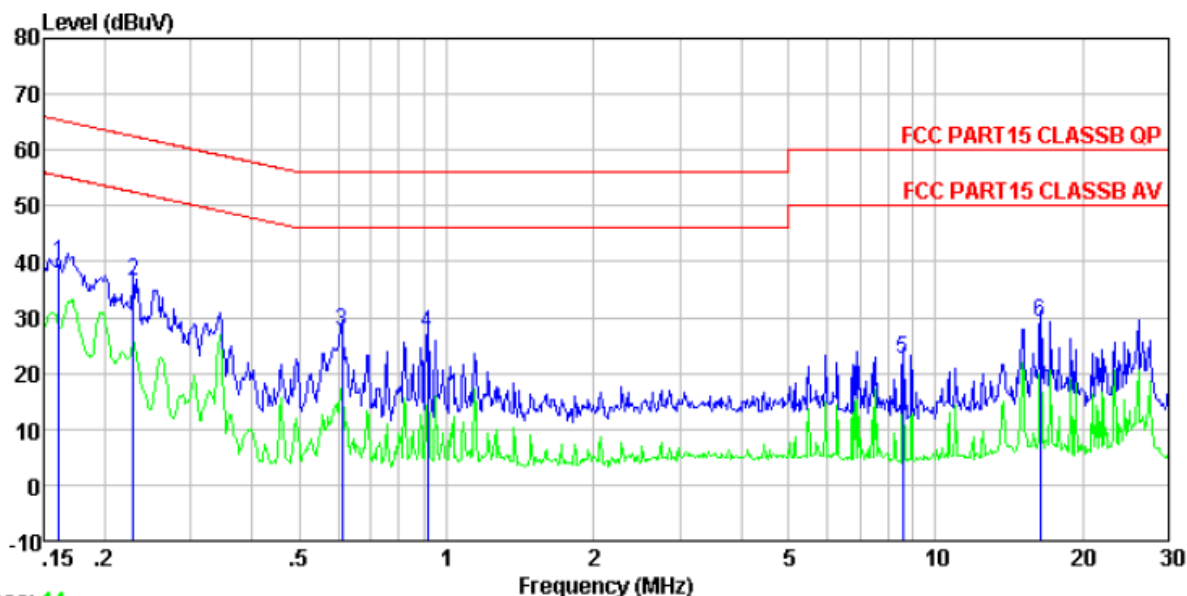
Test Requirement:	FCC Part15 B Section 15.107																
Test Method:	ANSI C63.4:2003																
Test Frequency Range:	150kHz to 30MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9kHz, VBW=30kHz																
Limit:	<table><tr><th rowspan="2">Frequency range (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 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:	<div><div><div>Reference Plane</div><div><div>LISN</div><div>AUX Equipment</div><div>E.U.T</div><div>Test table/Insulation plane</div></div><div><div>LISN</div><div>Filter</div><div>EMI Receiver</div></div><div>AC power</div></div><div><div>40cm</div><div>80cm</div></div><div><div>Remark</div><div>E.U.T: Equipment Under Test</div><div>LISN: Line Impedance Stabilization Network</div><div>Test table height=0.8m</div></div></div>																
Test environment:	Temp.: 25 °C	Humid.: 52%	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																

### Measurement Data

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Line:



Trace: 14

Condition : FCC PART15 CLASSB QP LISN-2012 LINE

Job No. : 0058RF

Test mode : PC mode

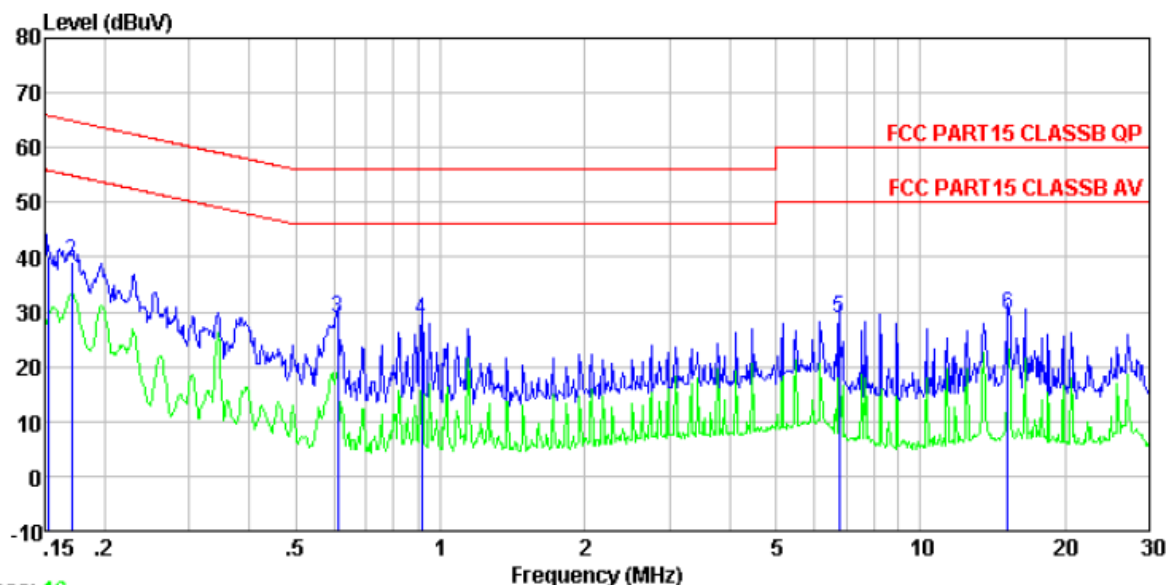
Test Engineer: Jim

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	39.86	-0.26	0.10	39.70	65.38	-25.68	QP
2	0.229	36.69	-0.23	0.10	36.56	62.48	-25.92	QP
3	0.611	27.53	-0.20	0.10	27.43	56.00	-28.57	QP
4	0.914	27.45	-0.21	0.10	27.34	56.00	-28.66	QP
5	8.592	22.83	-0.39	0.19	22.63	60.00	-37.37	QP
6	16.398	29.57	-0.54	0.20	29.23	60.00	-30.77	QP

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Neutral:



Trace: 16  
Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL  
Job No. : 0058RF  
Test mode : PC mode  
Test Engineer: Jim

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.152	40.32	-0.13	0.10	40.29	65.87	-25.58	QP
2	0.170	39.21	-0.13	0.10	39.18	64.94	-25.76	QP
3	0.611	28.72	-0.08	0.10	28.74	56.00	-27.26	QP
4	0.914	28.54	-0.09	0.10	28.55	56.00	-27.45	QP
5	6.769	29.08	-0.20	0.14	29.02	60.00	-30.98	QP
6	15.226	29.81	-0.41	0.20	29.60	60.00	-30.40	QP

Notes:

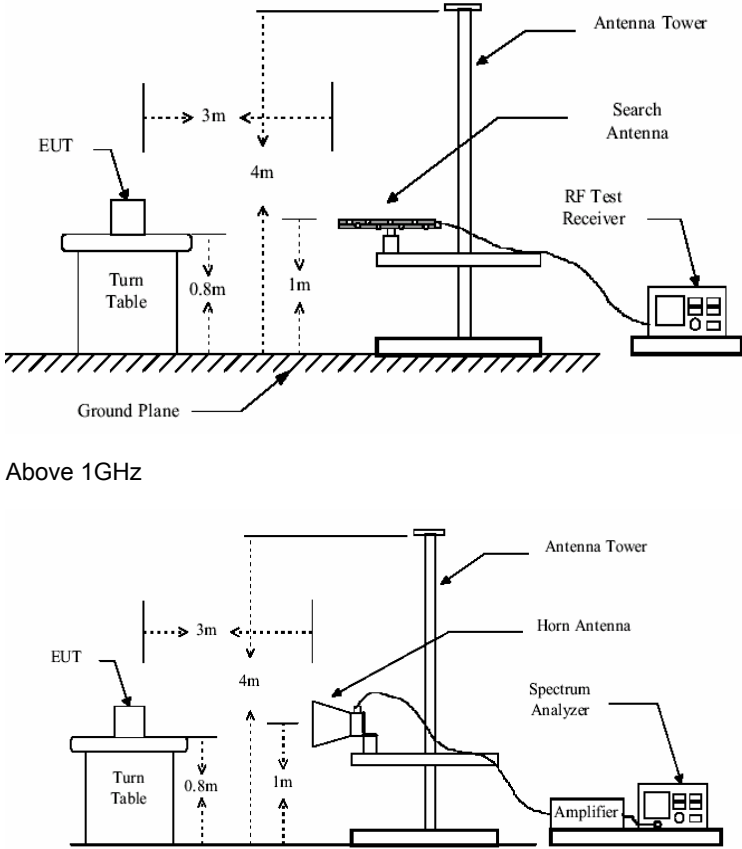
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



## 7.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109																								
Test Method:	ANSI C63.4:2003																								
Test Frequency Range:	30MHz to 7.5GHz																								
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>AV</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	AV	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																					
	AV	1MHz	10Hz	Average Value																					
Limit:	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr><tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr><tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr><tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr><tr><td>74.0</td><td>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:	<div>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.</div> <div>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.</div> <div>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.</div> <div>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.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>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.</div>																								
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:	Pass

**Note:**

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

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

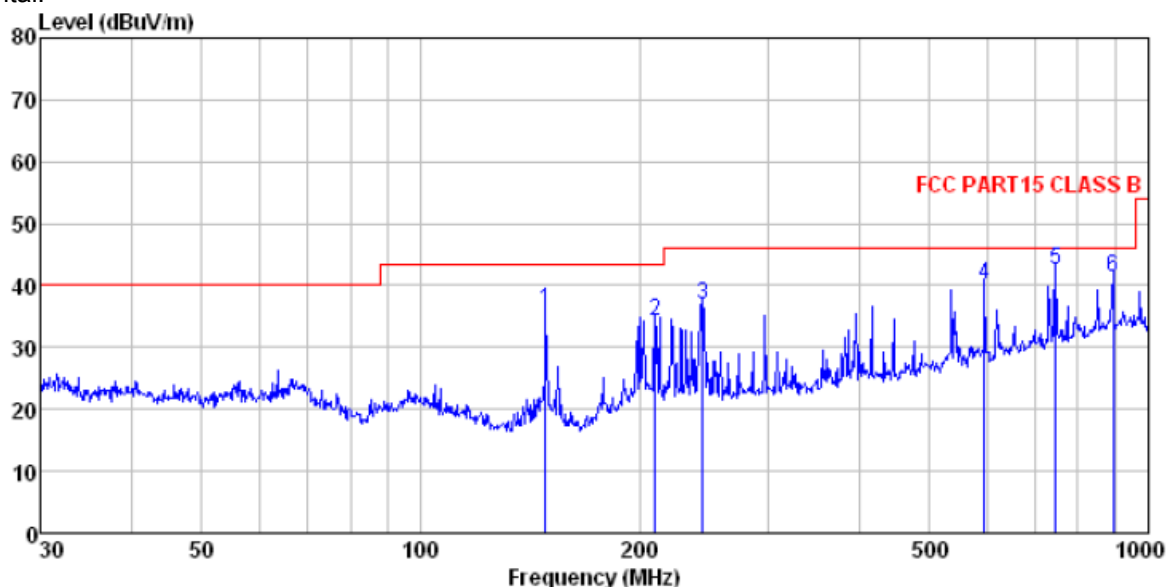
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## Measurement Data

Below 1GHz

Horizontal:



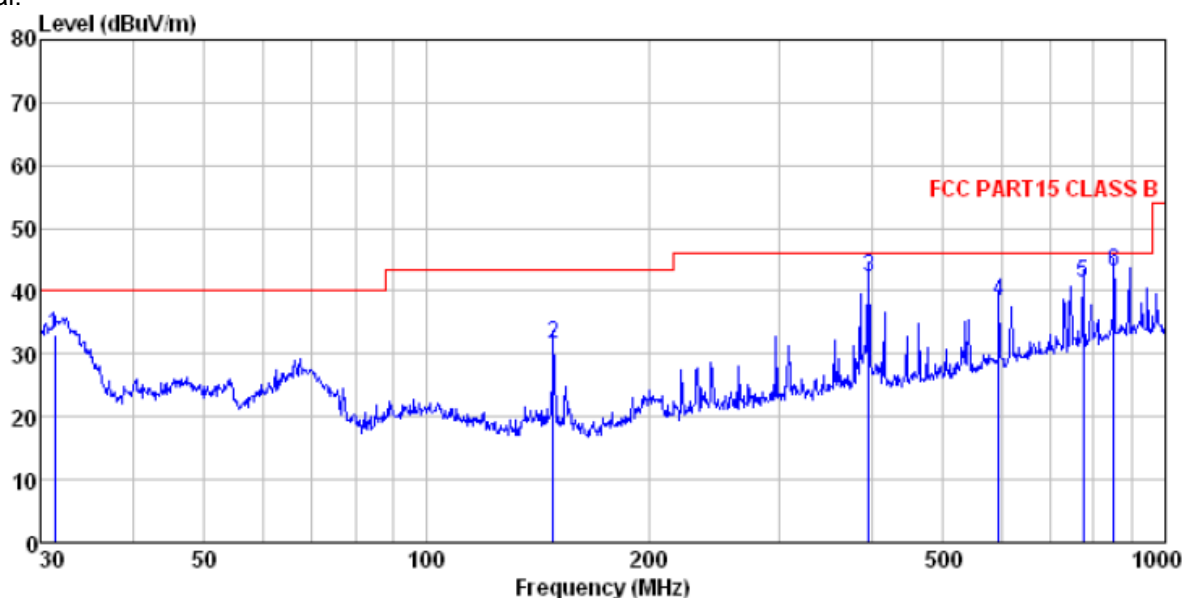
Site : 3m chamber  
Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 HORIZONTAL  
Job No. : 0058RF  
Test Mode : PC mode  
Test Engineer: Blue

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	148.441	55.04	11.29	1.56	31.98	35.91	43.50	-7.59	QP
2	210.048	50.74	13.90	1.90	32.15	34.39	43.50	-9.11	QP
3	244.232	51.95	15.08	2.09	32.16	36.96	46.00	-9.04	QP
4	595.133	47.13	20.40	3.70	31.07	40.16	46.00	-5.84	QP
5	744.866	47.24	22.39	4.26	31.25	42.64	46.00	-3.36	QP
6	893.857	43.66	24.05	4.83	31.19	41.35	46.00	-4.65	QP

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Vertical:



Site : 3m chamber  
Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 VERTICAL  
Job No. : 0058RF  
Test Mode : PC mode  
Test Engineer: Blue

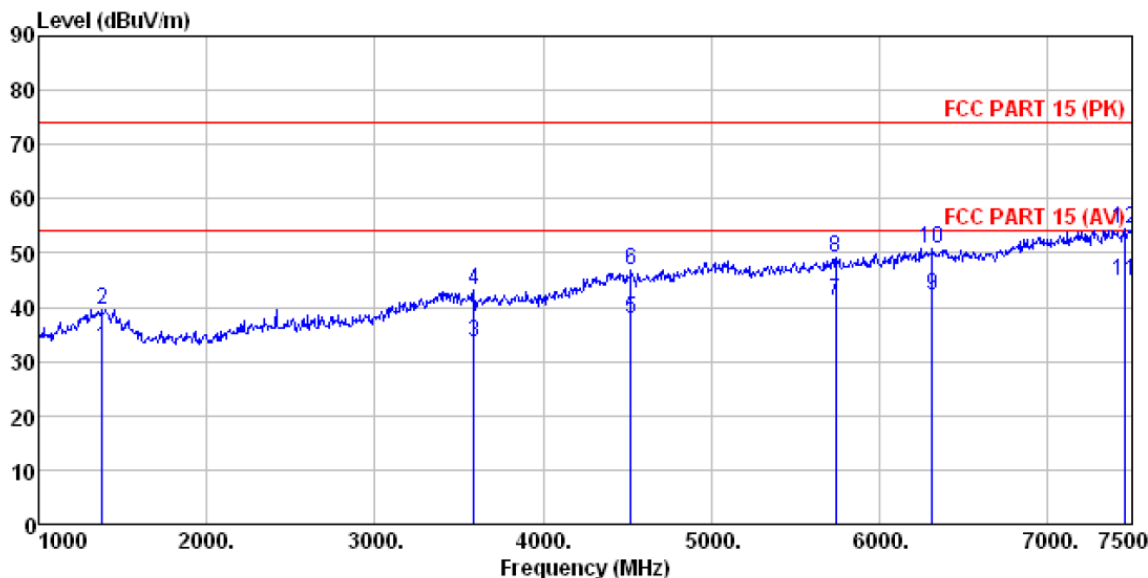
	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.399	48.89	15.70	0.57	32.06	33.10	40.00	-6.90	QP
2	148.441	50.79	11.29	1.56	31.98	31.66	43.50	-11.84	QP
3	396.242	54.35	17.01	2.83	31.90	42.29	46.00	-3.71	QP
4	595.133	45.24	20.40	3.70	31.07	38.27	46.00	-7.73	QP
5	774.158	45.64	22.72	4.36	31.29	41.43	46.00	-4.57	QP
6	851.035	46.05	23.60	4.66	31.25	43.06	46.00	-2.94	QP

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Above 1GHz

Horizontal:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL  
Job No. : 0058RF  
Test Mode : PC mode  
Test Engineer: Blue

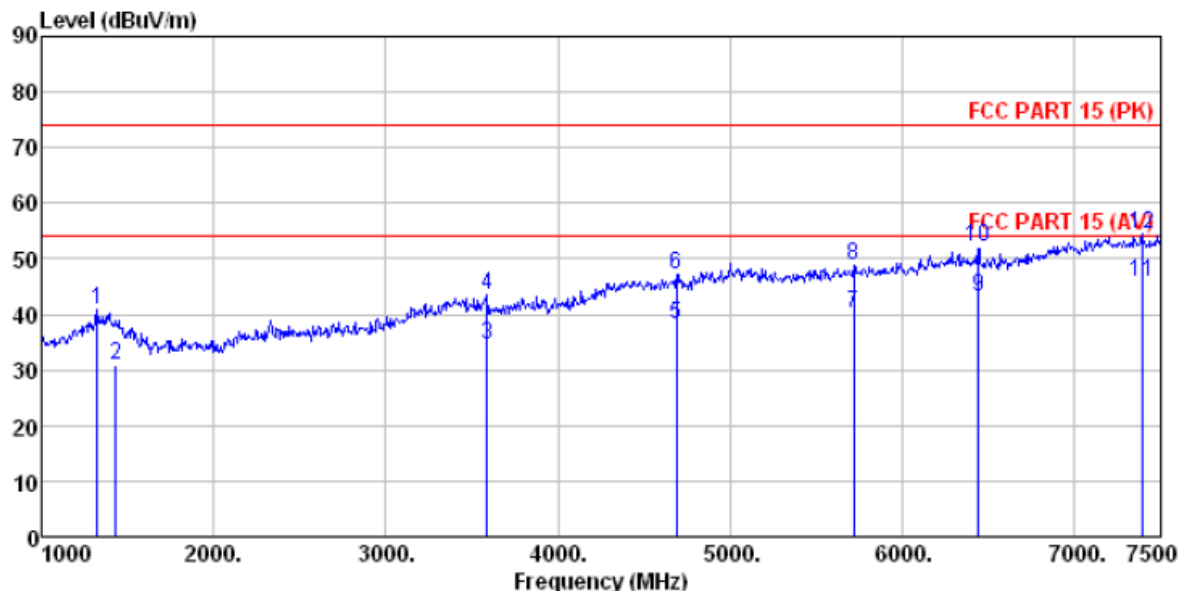
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1378.000	23.62	25.64	4.60	21.35	32.51	54.00	-21.49	Average
2	1378.000	30.72	25.64	4.60	21.35	39.61	74.00	-34.39	Peak
3	3590.000	25.24	29.12	7.13	27.81	33.68	54.00	-20.32	Average
4	3590.000	34.78	29.12	7.13	27.81	43.22	74.00	-30.78	Peak
5	4521.000	22.64	31.37	8.36	24.56	37.81	54.00	-16.19	Average
6	4521.000	31.80	31.37	8.36	24.56	46.97	74.00	-27.03	Peak
7	5739.000	22.66	32.56	9.86	23.84	41.24	54.00	-12.76	Average
8	5739.000	30.47	32.56	9.86	23.84	49.05	74.00	-24.95	Peak
9	6313.000	22.62	33.33	10.63	24.49	42.09	54.00	-11.91	Average
10	6313.000	31.45	33.33	10.63	24.49	50.92	74.00	-23.08	Peak
11	7454.000	23.54	36.59	11.80	27.09	44.84	54.00	-9.16	Average
12	7454.000	33.10	36.59	11.80	27.09	54.40	74.00	-19.60	Peak

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Vertical:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL  
Job No. : 0058RF  
Test Mode : PC mode  
Test Engineer: Blue

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
		Level	Loss	Loss	Line	Limit	Remark
	MHz	dBuV	Factor	Factor	Level	Level	
					dBuV/m	dBuV/m	
1	1322.000	30.97	25.67	4.56	20.50	40.70	74.00 -33.30 Peak
2	1434.000	23.38	25.40	4.64	22.42	31.00	54.00 -23.00 Average
3	3590.000	26.10	29.12	7.13	27.81	34.54	54.00 -19.46 Average
4	3590.000	35.10	29.12	7.13	27.81	43.54	74.00 -30.46 Peak
5	4689.000	22.31	31.65	8.51	24.29	38.18	54.00 -15.82 Average
6	4689.000	31.31	31.65	8.51	24.29	47.18	74.00 -26.82 Peak
7	5718.000	21.52	32.53	9.81	23.84	40.02	54.00 -13.98 Average
8	5718.000	30.41	32.53	9.81	23.84	48.91	74.00 -25.09 Peak
9	6439.000	23.63	33.53	10.80	24.90	43.06	54.00 -10.94 Average
10	6439.000	32.55	33.53	10.80	24.90	51.98	74.00 -22.02 Peak
11	7391.000	24.36	36.52	11.76	26.90	45.74	54.00 -8.26 Average
12	7391.000	33.24	36.52	11.76	26.90	54.62	74.00 -19.38 Peak

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