

FCC REPORT

Applicant: Shenzhen Contel Electronics Technology Co., Ltd.

Address of Applicant: 3/F, R2-A, High-tech Industrial Park, Nanshan District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: 10 Inch Tablet

Model No.: TAB-1040, TAB-1040G, TPC-1040M, TAB-1040_G, TAB-1040E

FCC ID: YAPTAB1040

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 08 May., 2013

Date of Test: 09 May to 19 Jun., 2013

Date of report issued: 20 Jun., 2013

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.

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.

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2 Version

Version No.	Date	Description
00	20 Jun., 2013	Original

Prepared by:



Date:

20 Jun.,2013

Report Clerk

Reviewed by:



Date:

20 Jun.,2013

Project Engineer

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4 Test Summary

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

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

5 General Information

5.1 Client Information

Applicant:	Shenzhen Contel Electronics Technology Co., Ltd.
Address of Applicant:	3/F, R2-A, High-tech Industrial Park, Nanshan District, Shenzhen, China
Manufacturer:	Dongguan Contel Cloud Terminal System CO.,LTD
Address of Manufacturer:	Waijing Industrial Park, Gaolong road, GaobuTown, Dongguan, GuangDong

5.2 General Description of E.U.T.

Product Name:	10 Inch Tablet
Model No.:	TAB-1040, TAB-1040G, TPC-1040M, TAB-1040_G, TAB-1040E
AC adapter:	Model: BSC 15-050210-UD Input: AC 100-240V, 50/60Hz 1.0A Output: DC 5.0V, 2.5A
Power supply:	Rechargeable Li-ion Battery DC3.7V/1200mAh
Remark:	The model No. TAB-1040, TAB-1040G, TPC-1040M, TAB-1040_G and TAB-1040E are identical in the same PCB layout, electrical circuit design and components used. The differences between them are model name, appearance of color. We selected TAB-1040 to perform the full tests.

5.3 Operating Modes

Operating mode	Detail description
Downloading mode	Keep the EUT in Downloading mode
Playing mode	Keep the EUT in Playing mode
Recording mode	Keep the EUT in Recording mode
HDMI mode	Keep the EUT in HDMI output mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in test results of the following pages.

5.4 Description of Support Units

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

5.5 Laboratory Facility

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

FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing 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 out files. Registration 817957, February 27, 2012.

IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Tel: 0755-23118282
Fax: 0755-23116366

5.7 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	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2013	June 08 2014
2	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr.01 2013	Mar. 31 2014
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 03 2014
4	Double-ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May. 29 2014
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014
7	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014
8	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014
9	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014
10	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014
11	Amplifier(10kHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 08 2014
13	Spectrum analyzer	Rohde & Schwarz	FSP	CCIS0023	May 29 2012	May 28 2014
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2013	June 08 2014
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2012	May. 24 2014
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2013	Mar. 31 2014
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2013	Mar. 31 2014

6 Test result and Measurement Data

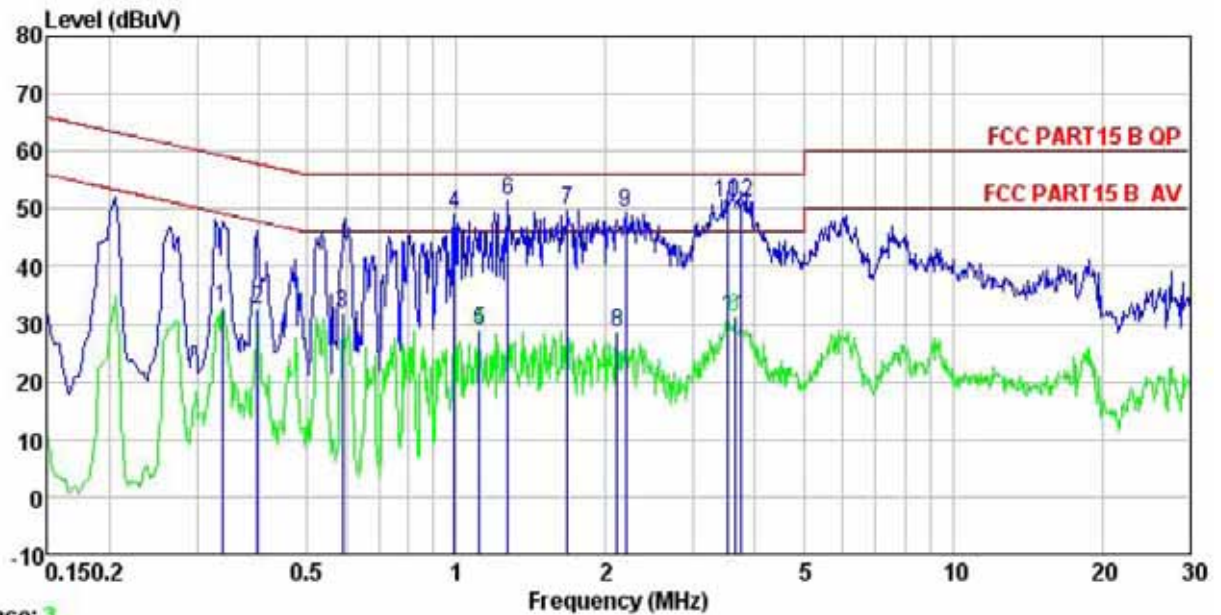
6.1 Conducted Emission

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:	<div><p style="text-align: center;">Reference Plane</p><p style="text-align: center;">Test table/Insulation plane</p><p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>																
Test procedure	<div><div>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.</div><div>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).</div><div>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.</div></div>																
Test environment:	Temp.:	23 °C	Humid.: 56% Press.: 1 01kPa														
Measurement Record:	Uncertainty: 3.28dB																
Test Instruments:	Refer to section 5.7 for details																
Test mode:	Refer to section 5.3 for details																
Test results:	Pass																

Measurement data:

Playing & Charging mode:

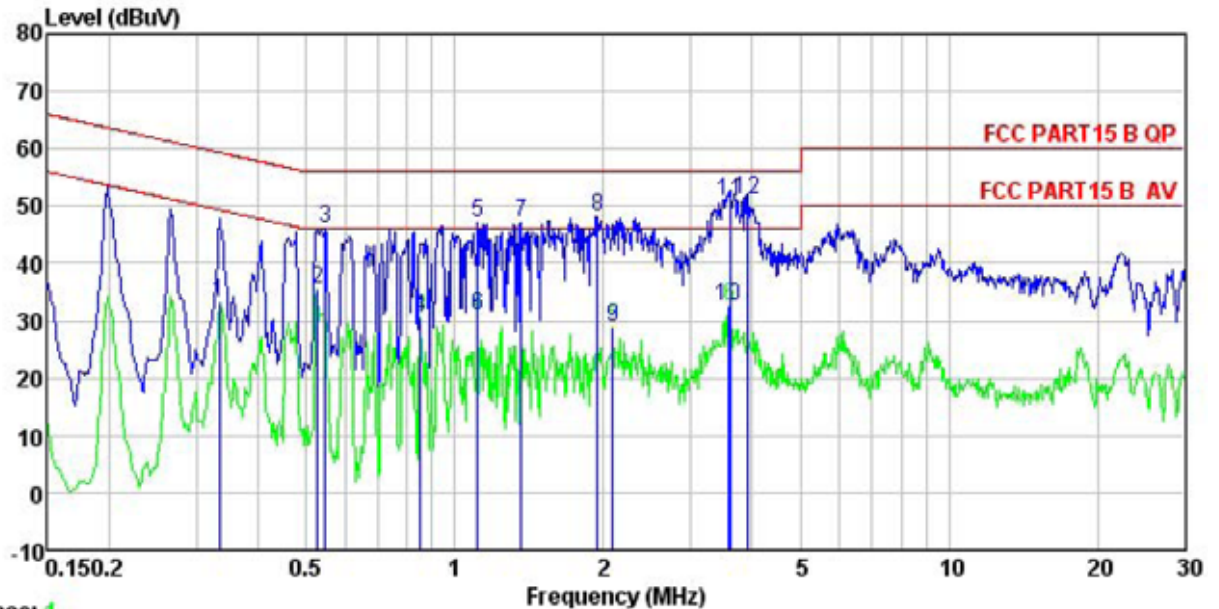
Line:



Trace: 3
 Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job No. : 128RF
 EUT : 10" Tablet
 Model : TAB-1040
 Test Mode : Playing+Charging mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Vincent

	Read Freq	LISN Level	Cable Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.337	21.96	10.27	0.73	32.96	49.27	-16.31	Average
2	0.398	21.41	10.28	0.72	32.41	47.90	-15.49	Average
3	0.589	20.95	10.23	0.76	31.94	46.00	-14.06	Average
4	0.989	38.04	10.21	0.87	49.12	56.00	-6.88	QP
5	1.111	17.95	10.22	0.80	28.97	46.00	-17.03	Average
6	1.269	40.55	10.23	0.66	51.44	56.00	-4.56	QP
7	1.671	39.38	10.26	0.15	49.79	56.00	-6.21	QP
8	2.110	17.42	10.28	0.96	28.66	46.00	-17.34	Average
9	2.190	38.05	10.28	0.96	49.29	56.00	-6.71	QP
10	3.509	40.01	10.29	0.90	51.20	56.00	-4.80	QP
11	3.642	19.86	10.29	0.90	31.05	46.00	-14.95	Average
12	3.740	39.97	10.29	0.89	51.15	56.00	-4.85	QP

Neutral:



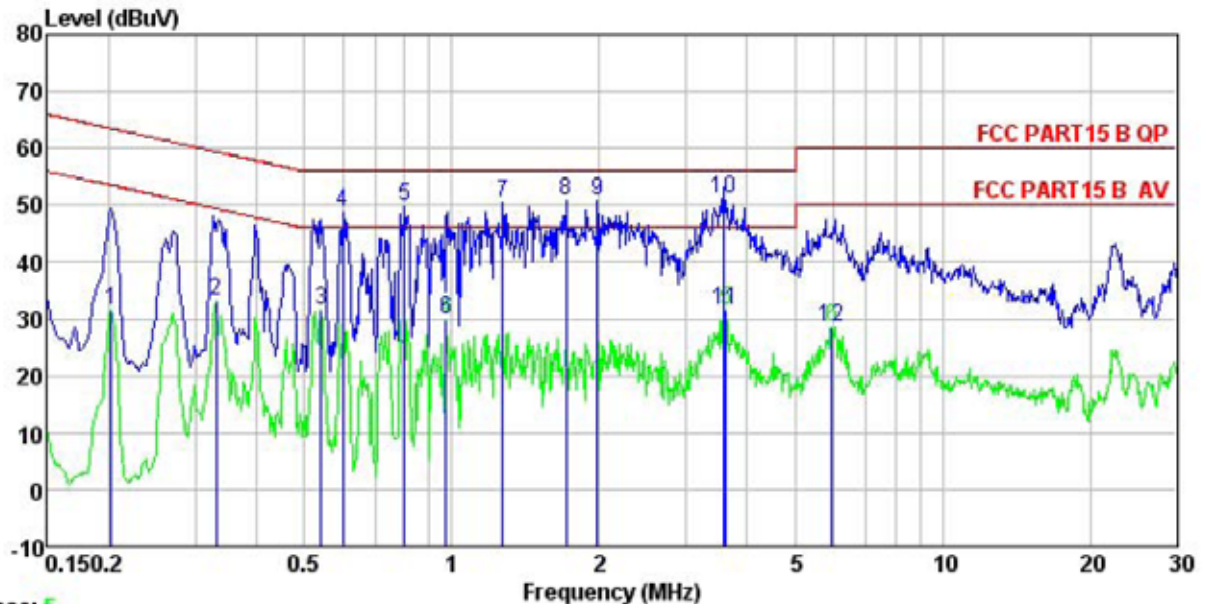
Trace: 1

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job No. : 128RF
 EUT : 10" Tablet
 Model : TAB-1040
 Test Mode : Playing+Charging mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Vincent

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.334	22.33	10.25	0.73	33.31	49.35	-16.04	Average
2	0.527	24.47	10.26	0.76	35.49	46.00	-10.51	Average
3	0.546	35.10	10.25	0.76	46.11	56.00	-9.89	QP
4	0.853	19.45	10.18	0.83	30.46	46.00	-15.54	Average
5	1.111	36.05	10.21	0.80	47.06	56.00	-8.94	QP
6	1.111	19.72	10.21	0.80	30.73	46.00	-15.27	Average
7	1.367	36.40	10.23	0.54	47.17	56.00	-8.83	QP
8	1.949	37.74	10.27	0.02	48.03	56.00	-7.97	QP
9	2.088	17.63	10.27	0.96	28.86	46.00	-17.14	Average
10	3.584	21.28	10.28	0.90	32.46	46.00	-13.54	Average
11	3.603	39.48	10.28	0.90	50.66	56.00	-5.34	QP
12	3.901	39.89	10.28	0.89	51.06	56.00	-4.94	QP

Recording mode:

Line:

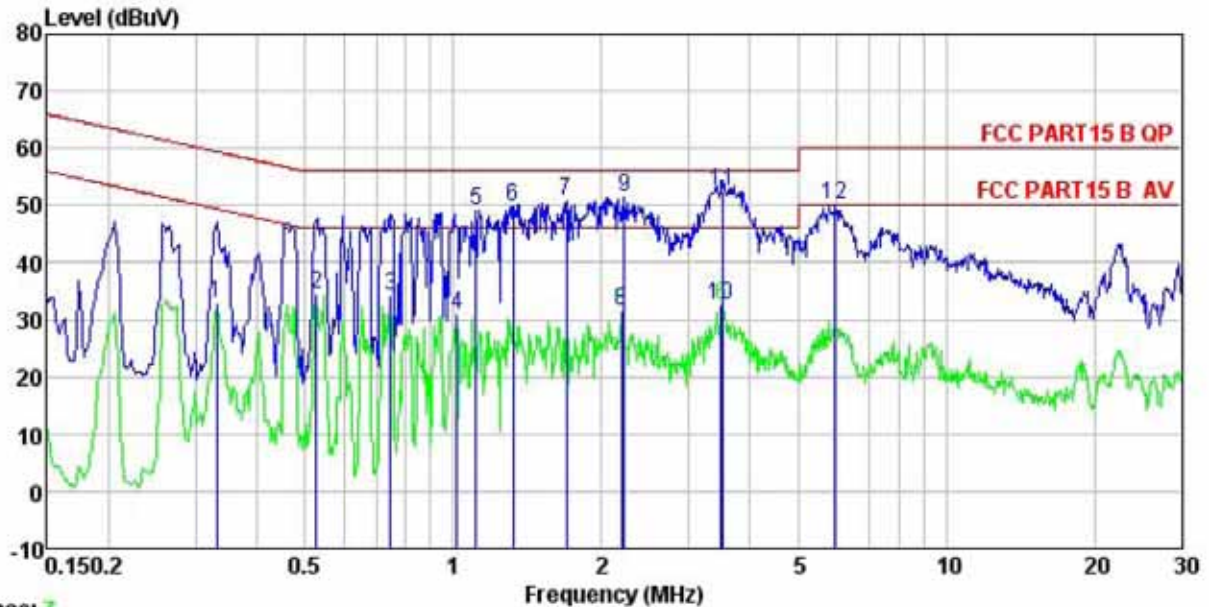


Trace: 5

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job No. : 128RF
 EUT : 10" Tablet
 Model : TAB-1040
 Test Mode : Recording mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Vincent

	Read Freq	LISN Level	Cable Factor	Cable Loss	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.202	20.61	10.21	0.76	31.58	53.54	-21.96	Average
2	0.330	22.18	10.27	0.73	33.18	49.44	-16.26	Average
3	0.541	20.54	10.25	0.76	31.55	46.00	-14.45	Average
4	0.601	37.67	10.22	0.77	48.66	56.00	-7.34	QP
5	0.800	38.76	10.19	0.80	49.75	56.00	-6.25	QP
6	0.974	18.93	10.21	0.86	30.00	46.00	-16.00	Average
7	1.269	39.57	10.23	0.66	50.46	56.00	-5.54	QP
8	1.707	40.25	10.26	0.12	50.63	56.00	-5.37	QP
9	1.980	40.53	10.28	0.01	50.82	56.00	-5.18	QP
10	3.584	40.07	10.29	0.90	51.26	56.00	-4.74	QP
11	3.623	20.31	10.29	0.90	31.50	46.00	-14.50	Average
12	5.961	17.42	10.28	0.82	28.52	50.00	-21.48	Average

Neutral:

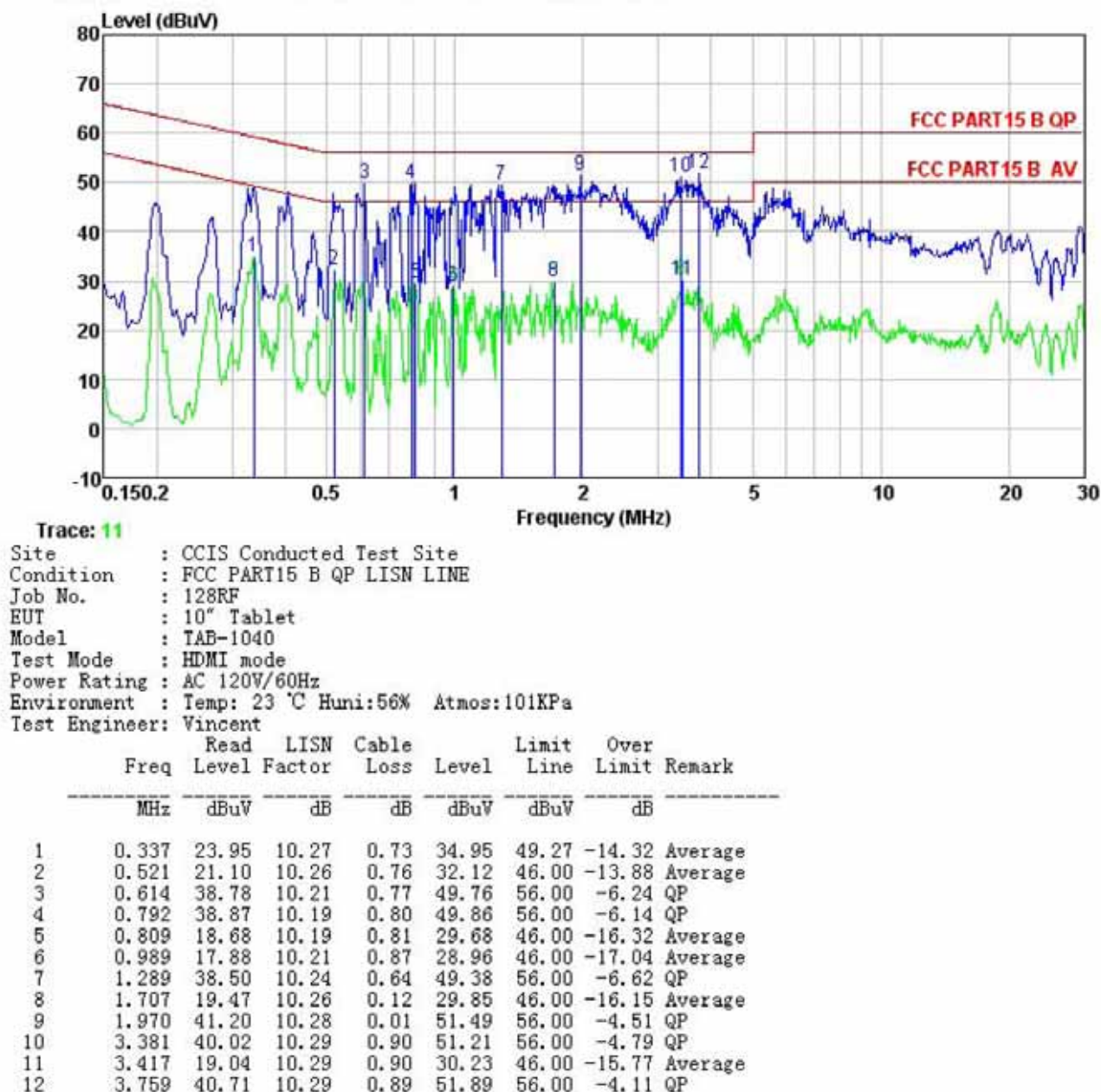


Trace: 7
 Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job No. : 128RF
 EUT : 10" Tablet
 Model : TAB-1040
 Test Mode : Recording mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Vincent

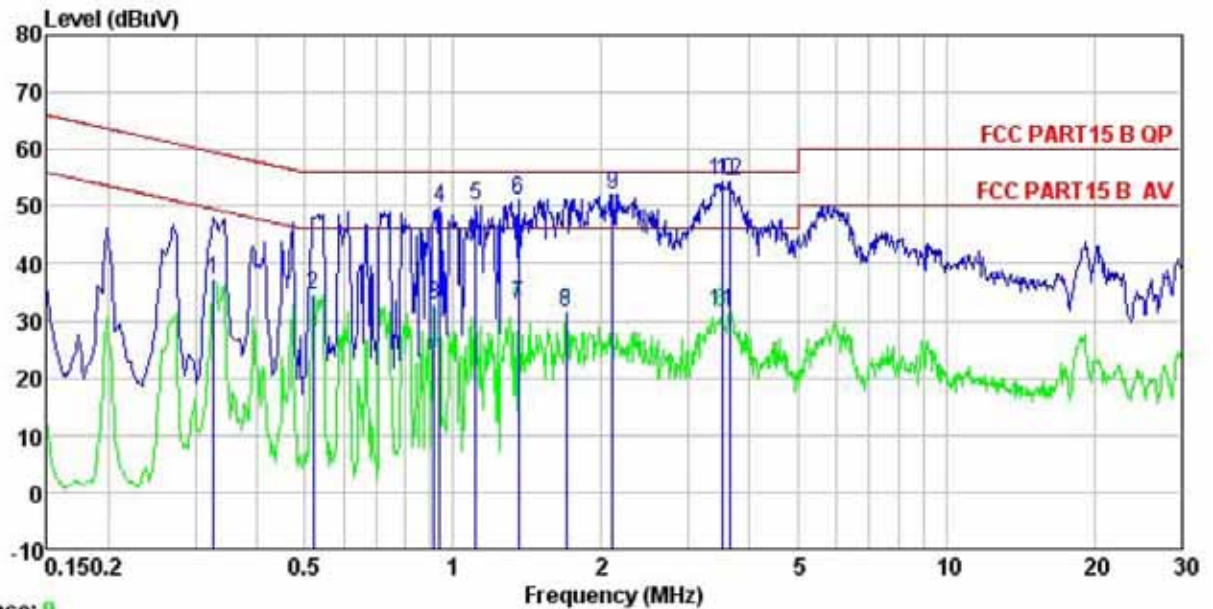
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBrV	dB	dB	dBrV	dBrV	dB	
1	0.330	21.92	10.25	0.73	32.90	49.44	-16.54	Average
2	0.527	23.54	10.26	0.76	34.56	46.00	-11.44	Average
3	0.747	23.24	10.17	0.78	34.19	46.00	-11.81	Average
4	1.016	19.70	10.20	0.86	30.76	46.00	-15.24	Average
5	1.111	38.22	10.21	0.80	49.23	56.00	-6.77	QP
6	1.324	39.09	10.23	0.60	49.92	56.00	-6.08	QP
7	1.698	40.27	10.25	0.13	50.65	56.00	-5.35	QP
8	2.190	20.29	10.27	0.96	31.52	46.00	-14.48	Average
9	2.225	40.37	10.27	0.95	51.59	56.00	-4.41	QP
10	3.491	21.47	10.28	0.90	32.65	46.00	-13.35	Average
11	3.528	41.20	10.28	0.90	52.38	56.00	-3.62	QP
12	5.961	38.95	10.27	0.82	50.04	60.00	-9.96	QP

HDMI mode:

Line:



Neutral:



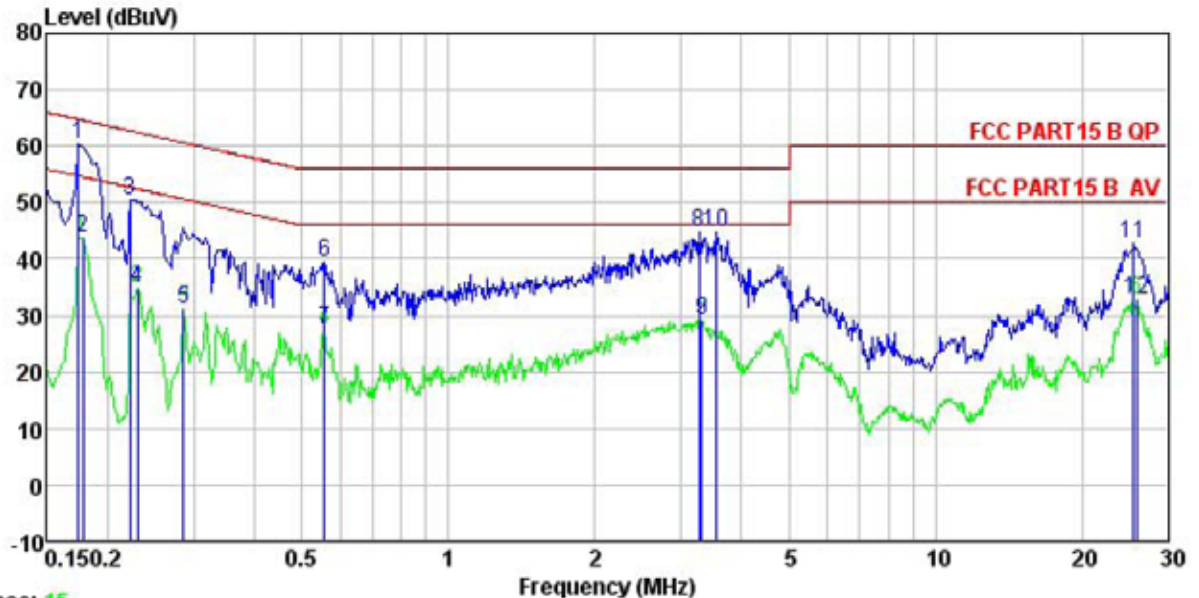
Trace: 9

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job No. : 128RF
 EUT : 10" Tablet
 Model : TAB-1040
 Test Mode : HDMI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Vincent

	Read	LISN	Cable	Limit	Over	
Freq	Level	Factor	Loss	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dB	
1	0.327	26.29	10.25	0.74	37.28	49.53 -12.25 Average
2	0.521	23.52	10.27	0.76	34.55	46.00 -11.45 Average
3	0.914	21.89	10.19	0.85	32.93	46.00 -13.07 Average
4	0.938	38.70	10.19	0.86	49.75	56.00 -6.25 QP
5	1.111	39.04	10.21	0.80	50.05	56.00 -5.95 QP
6	1.359	40.45	10.23	0.54	51.22	56.00 -4.78 QP
7	1.359	21.94	10.23	0.54	32.71	46.00 -13.29 Average
8	1.698	21.07	10.25	0.13	31.45	46.00 -14.55 Average
9	2.110	40.94	10.27	0.96	52.17	56.00 -3.83 QP
10	3.509	43.22	10.28	0.90	54.40	56.00 -1.60 QP
11	3.509	20.47	10.28	0.90	31.65	46.00 -14.35 Average
12	3.642	43.24	10.28	0.90	54.42	56.00 -1.58 QP

Downloading mode:

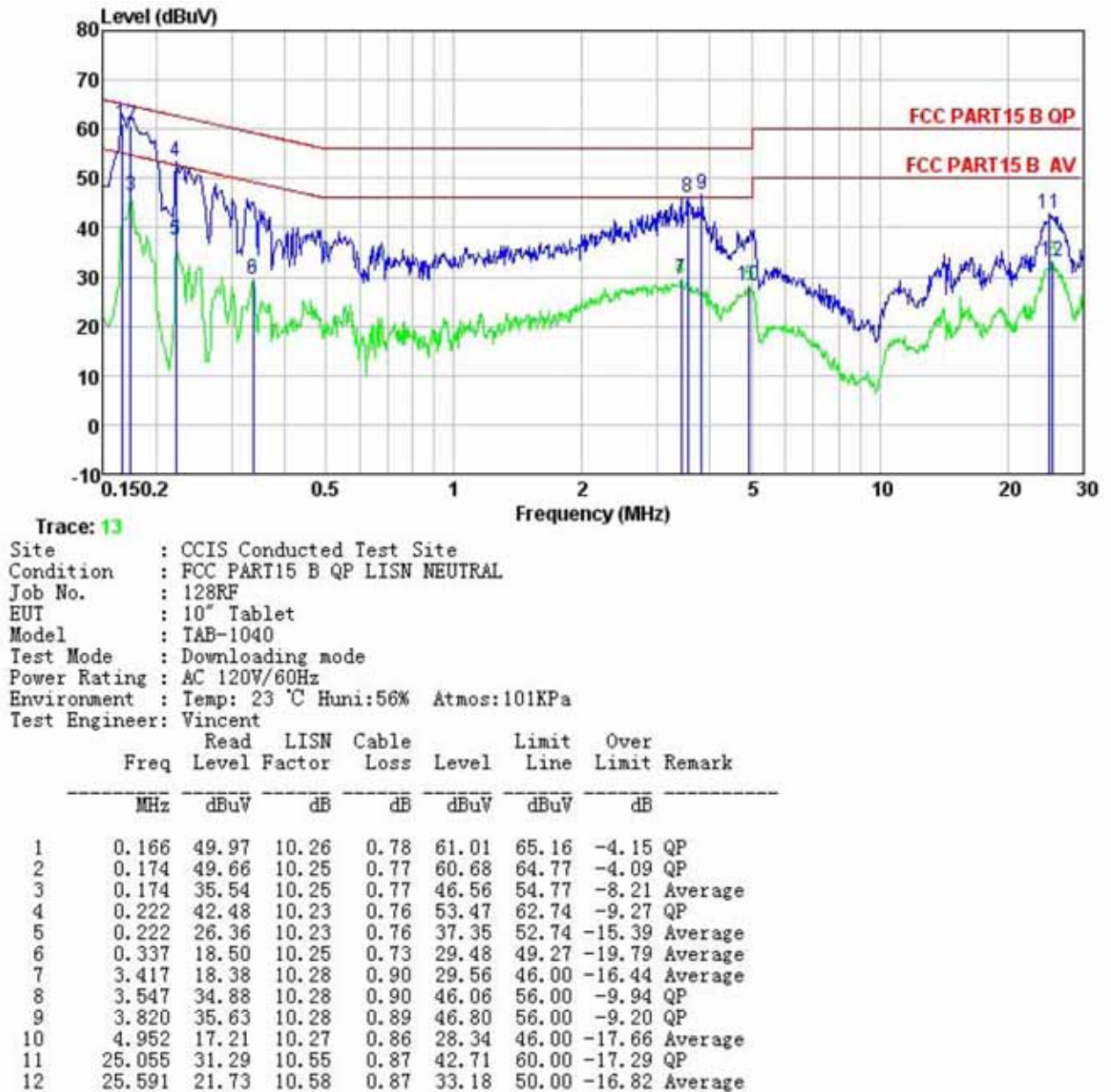
Line:



Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job No. : 128RF
 EUT : 10" Tablet
 Model : TAB-1040
 Test Mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Vincent

	Freq	Read	LISN	Cable	Level	Limit	Over	
	MHz	Level	Factor	Loss	dBuV	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.174	49.31	10.23	0.77	60.31	64.77	-4.46	QP
2	0.178	32.92	10.23	0.77	43.92	54.59	-10.67	Average
3	0.222	39.62	10.22	0.76	50.60	62.74	-12.14	QP
4	0.230	23.85	10.23	0.75	34.83	52.44	-17.61	Average
5	0.286	20.14	10.26	0.74	31.14	50.63	-19.49	Average
6	0.555	28.43	10.24	0.76	39.43	56.00	-16.57	QP
7	0.555	16.36	10.24	0.76	27.36	46.00	-18.64	Average
8	3.276	33.63	10.29	0.90	44.82	56.00	-11.18	QP
9	3.310	18.14	10.29	0.90	29.33	46.00	-16.67	Average
10	3.547	33.51	10.29	0.90	44.70	56.00	-11.30	QP
11	25.591	31.29	10.58	0.87	42.74	60.00	-17.26	QP
12	25.864	21.23	10.61	0.87	32.71	50.00	-17.29	Average

Neutral:

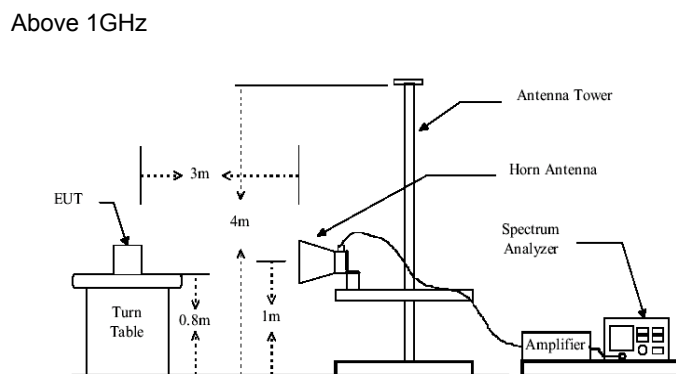
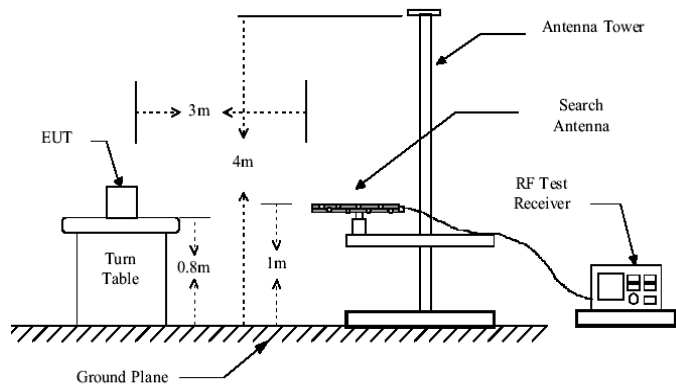


Notes:

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

6.2 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			Remark
	30MHz-88MHz			Quasi-peak Value
	88MHz-216MHz			Quasi-peak Value
	216MHz-960MHz			Quasi-peak Value
	960MHz-1GHz			Quasi-peak Value
	Above 1GHz			Average Value
Test setup:	Below 1GHz			Peak Value
	Above 1GHz			Peak Value



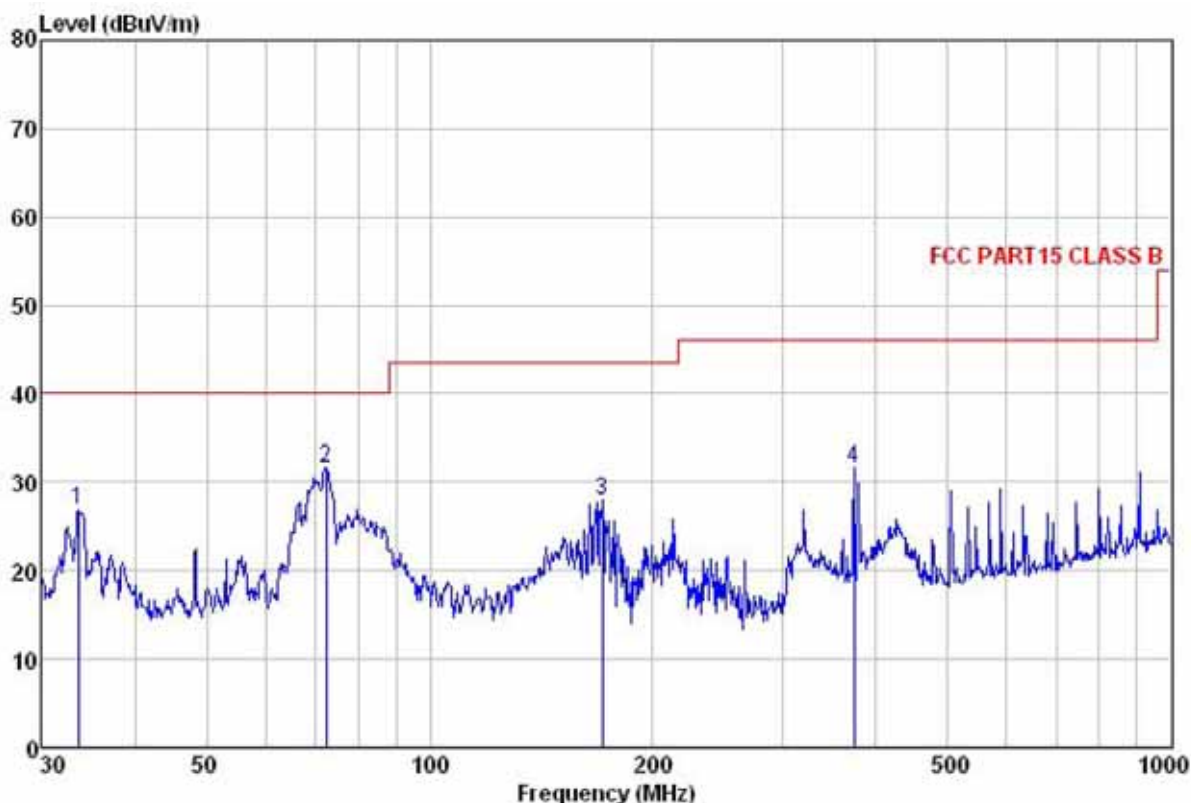
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving 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.:	55%	Press.:	1 01kPa
Measurement Record:	Uncertainty: 4.88dB					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data

Below 1GHz

Playing & Charging mode:

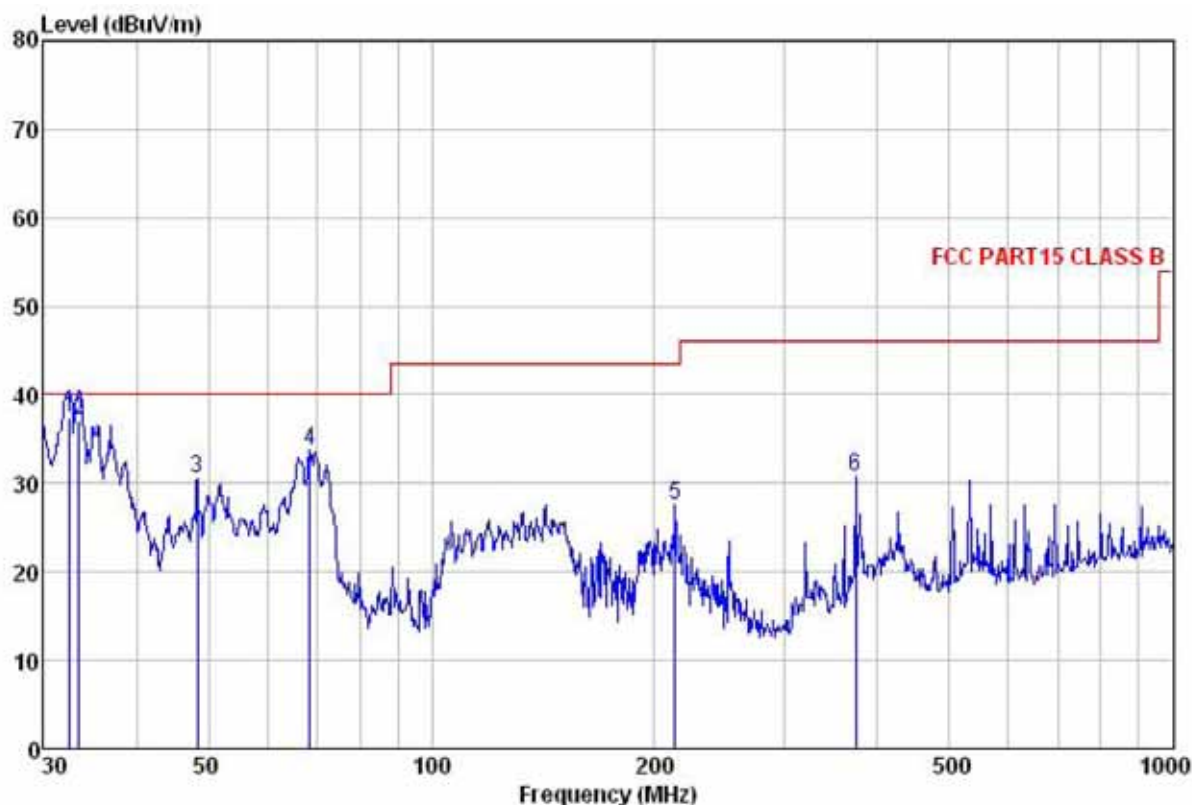
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
 Job No. : 128RF
 EUT : MID
 Model : TAB-1040
 Test mode : PLAYING & Charging
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
		Level	Factor	Loss	Factor	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
							dB
1	33.562	40.22	12.31	0.98	26.65	26.86	40.00
2	72.592	52.02	8.19	1.59	30.14	31.66	40.00
3	170.793	44.97	9.03	2.66	28.63	28.03	43.50
4	373.311	43.76	14.54	3.09	29.78	31.61	46.00

Vertical:

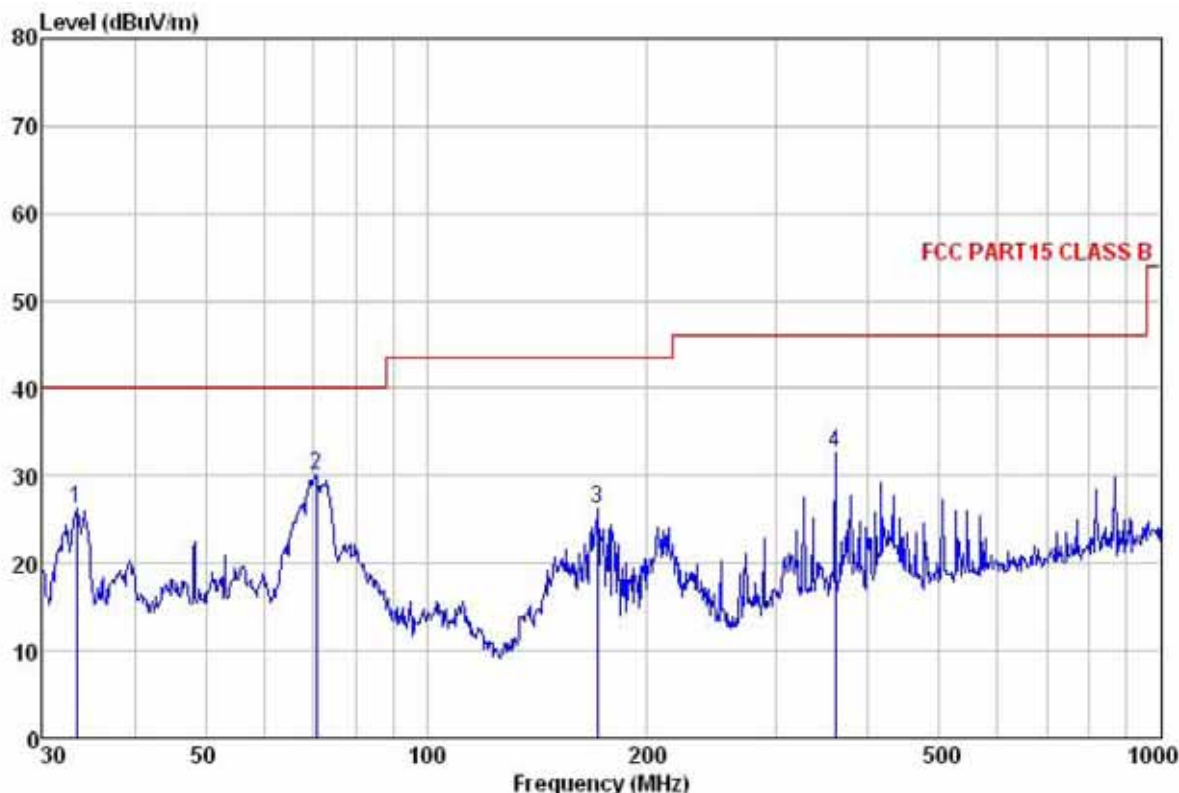


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
 Job No. : 128RF
 EUT : MID
 Model : TAB-1040
 Test mode : PLAYING \$ Charging
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	32.520	50.57	12.31	0.91	26.54	37.25	40.00	-2.75 QP
2	33.445	50.39	12.31	0.98	26.63	37.05	40.00	-2.95 QP
3	48.332	44.05	13.35	1.27	28.14	30.53	40.00	-9.47
4	68.631	53.11	9.20	1.49	30.02	33.78	40.00	-6.22
5	213.015	43.41	10.97	2.85	29.75	27.48	43.50	-16.02
6	373.311	42.90	14.54	3.09	29.78	30.75	46.00	-15.25

Recording mode:

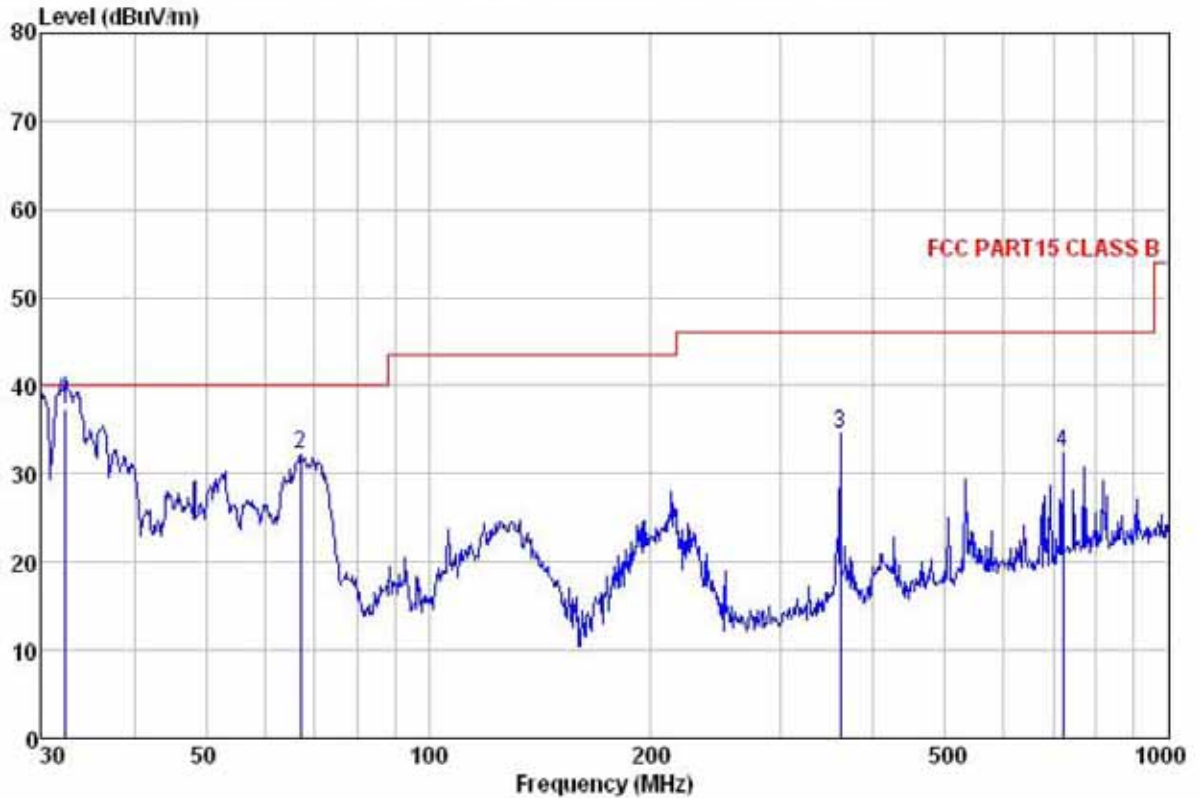
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
 Job No. : 128RF
 EUT : MID
 Model : TAB-1040
 Test mode : RECORDING
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	Freq	ReadAntenna	Cable Preamp	Limit	Over	
	Level	Factor	Loss Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB
1	33.328	39.62	12.31	0.98	26.63	26.28 40.00 -13.72
2	70.832	50.20	8.52	1.54	30.14	30.12 40.00 -9.88
3	170.793	43.20	9.03	2.66	28.63	26.26 43.50 -17.24
4	360.448	44.92	14.43	3.10	29.73	32.72 46.00 -13.28

Vertical:

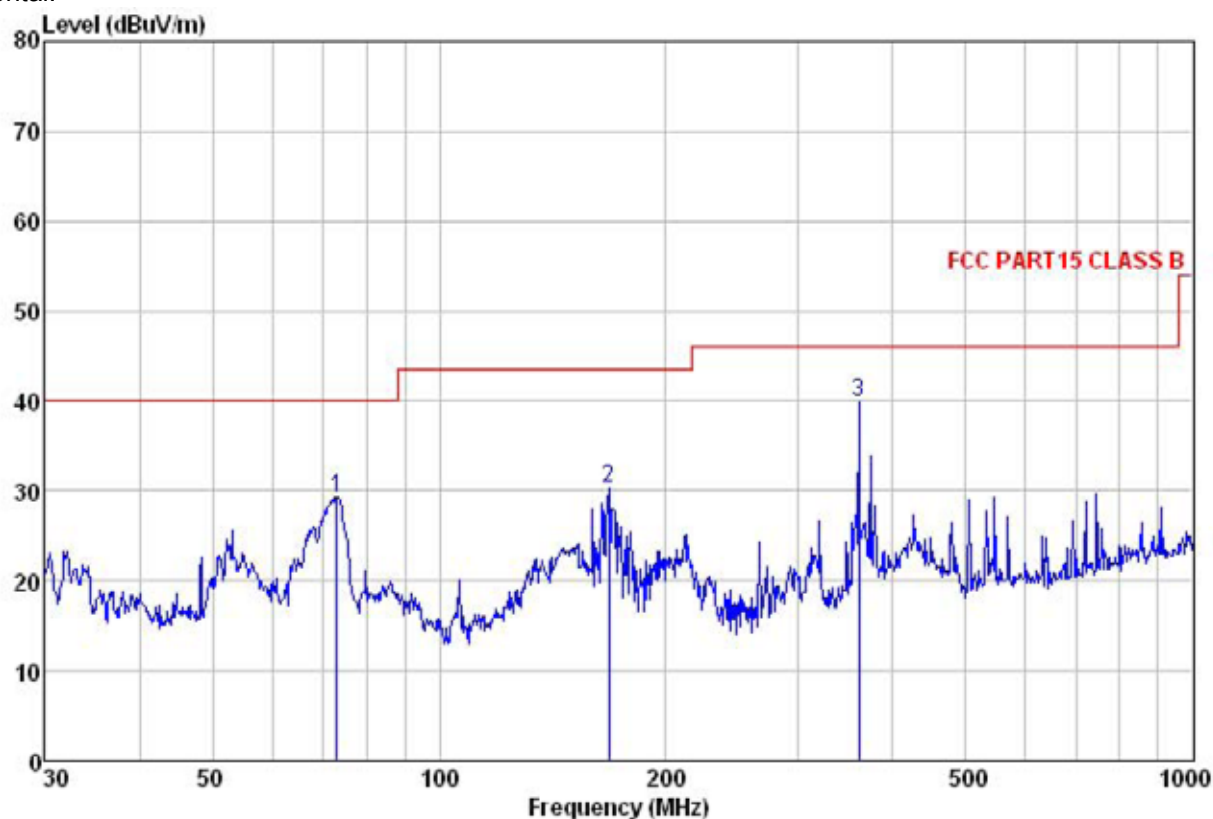


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
 Job No. : 128RF
 EUT : MID
 Model : TAB-1040
 Test mode : RECORDING
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	32.293	50.53	12.32	0.91	26.51	37.25	40.00	-2.75 QP
2	67.202	50.83	9.75	1.44	29.90	32.12	40.00	-7.88
3	360.448	46.78	14.43	3.10	29.73	34.58	46.00	-11.42
4	721.726	39.54	19.10	4.26	30.55	32.35	46.00	-13.65

HDMI mode:

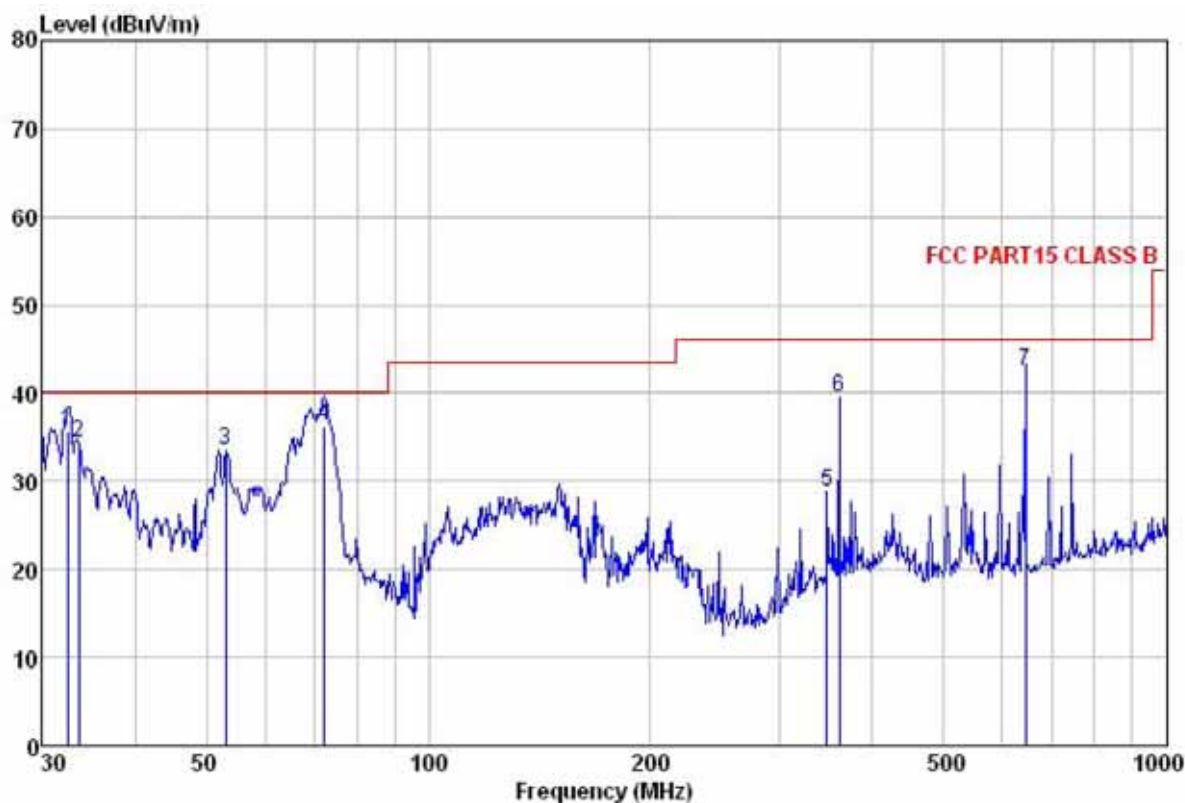
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
 Job No. : 128RF
 EUT : MID
 Model : TAB-1040
 Test mode : HDMI
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
		Level	Loss	Factor		Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	73.103	49.74	8.13	1.59	30.14	29.32	40.00	-10.68
2	167.824	47.67	8.90	2.64	29.01	30.20	43.50	-13.30
3	360.448	52.11	14.43	3.10	29.73	39.91	46.00	-6.09

Vertical:

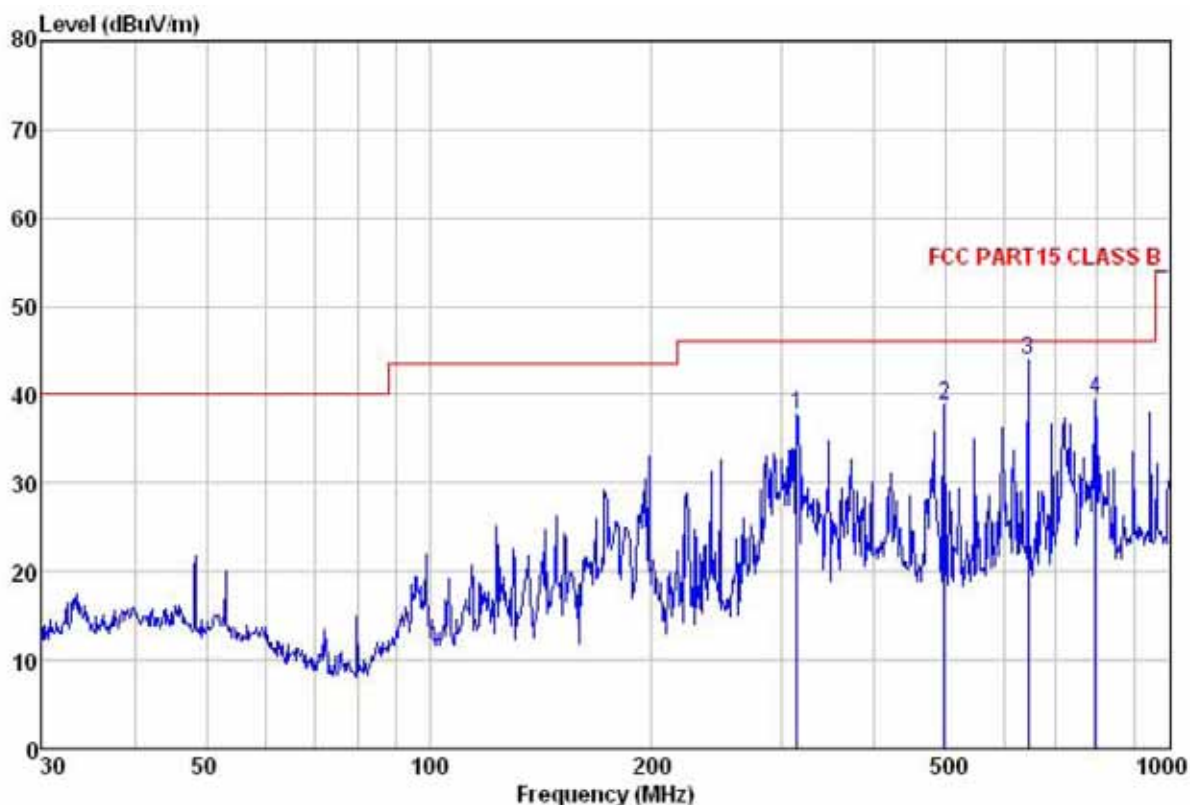


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
 Job No. : 128RF
 EUT : MID
 Model : TAB-1040
 Test mode : HDMI
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	32.406	48.96	12.31	0.91	26.53	35.65	40.00	-4.35 QP
2	33.562	47.79	12.31	0.98	26.65	34.43	40.00	-5.57
3	53.131	47.75	13.12	1.32	28.60	33.59	40.00	-6.41
4	72.338	56.58	8.26	1.56	30.14	36.26	40.00	-3.74 QP
5	346.809	41.07	14.22	3.09	29.66	28.72	46.00	-17.28
6	360.448	51.77	14.43	3.10	29.73	39.57	46.00	-6.43
7	645.120	50.47	18.61	3.87	30.58	42.37	46.00	-3.63 QP

Downloading mode:

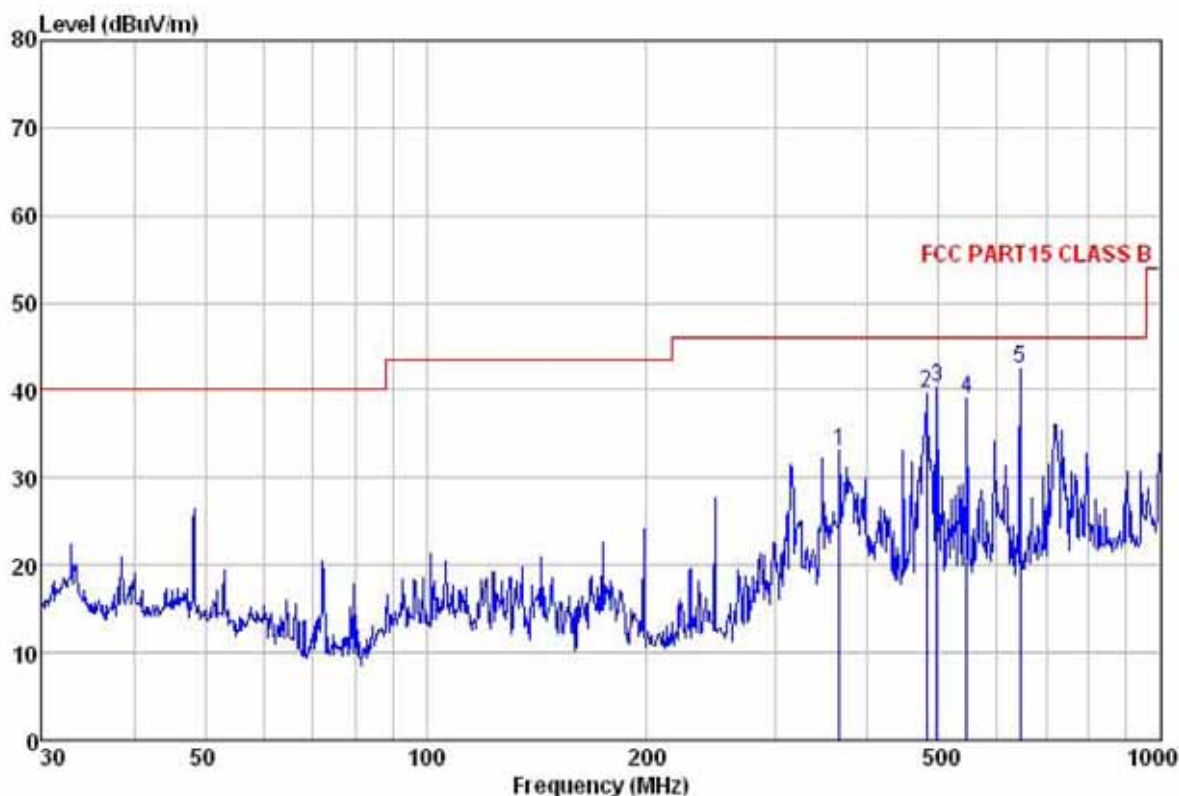
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
 Job No. : 128RF
 EUT : MID
 Model : TAB-1040
 Test mode : DOWNLOADING
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	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	314.377	51.10	13.26	2.98	29.51	37.83	46.00 -8.17
2	495.934	49.15	16.52	3.59	30.52	38.74	46.00 -7.26
3	645.120	52.05	18.61	3.87	30.58	43.95	46.00 -2.05
4	793.396	45.61	19.96	4.35	30.42	39.50	46.00 -6.50

Vertical:



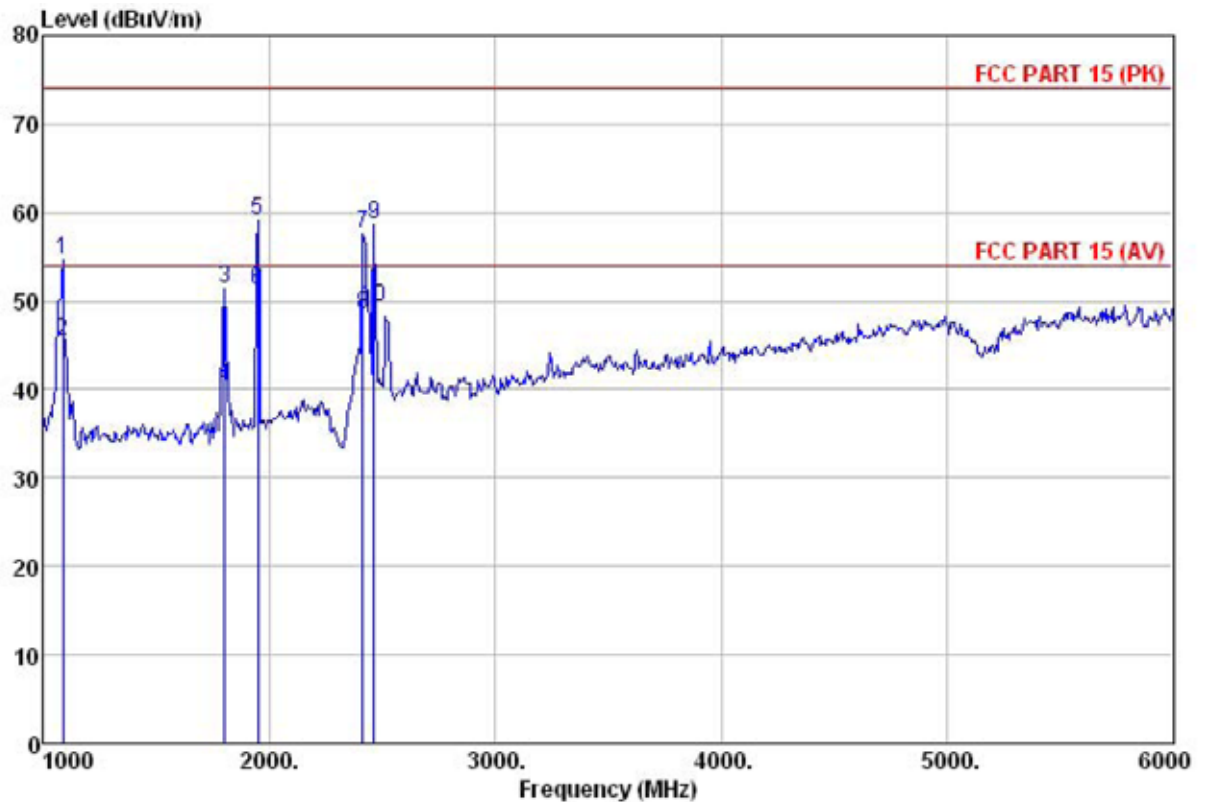
Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
 Job No. : 128RF
 EUT : MID
 Model : IAB-1040
 Test mode : DOWNLOADING
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	Freq	ReadAntenna Level	Cable Factor	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	365.539	45.33	14.48	3.09	29.75	33.15	46.00	-12.85
2	480.528	50.63	16.07	3.46	30.52	39.64	46.00	-6.36
3	495.934	50.69	16.52	3.59	30.52	40.28	46.00	-5.72
4	545.183	48.20	17.46	3.86	30.54	38.98	46.00	-7.02
5	645.120	50.61	18.61	3.87	30.58	42.51	46.00	-3.49

Above 1GHz

Downloading mode:

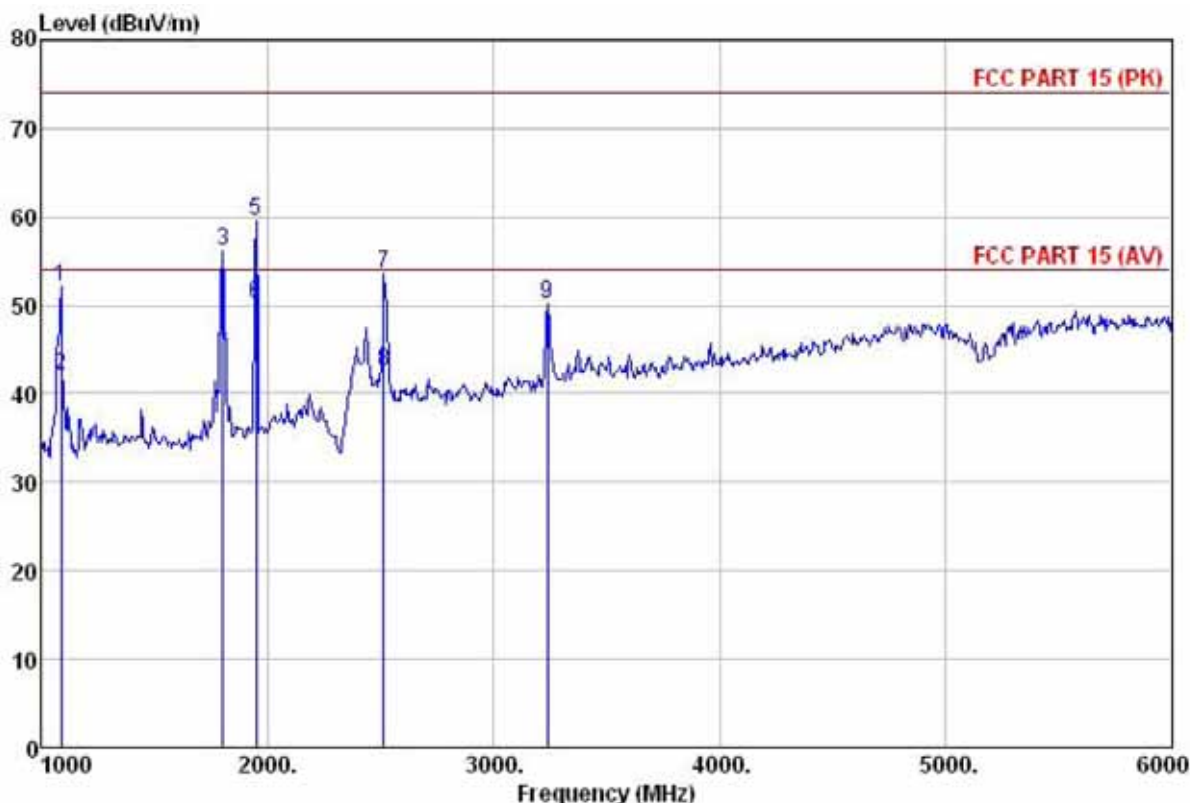
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 Job No. : 128RF
 EUT : MID
 Model : TAB-1040
 Test mode : Downloading
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1085.000	67.84	24.38	3.31	40.95	54.58	74.00	-19.42 Peak
2	1085.000	58.62	24.38	3.31	40.95	45.36	54.00	-8.64 Average
3	1800.000	62.46	25.27	4.67	40.98	51.42	74.00	-22.58 Peak
4	1800.000	51.41	25.27	4.67	40.98	40.37	54.00	-13.63 Average
5	1950.000	69.19	25.93	4.79	40.88	59.03	74.00	-14.97 Peak
6	1950.000	61.39	25.93	4.79	40.88	51.23	54.00	-2.77 Average
7	2415.000	56.92	27.54	5.68	32.53	57.61	74.00	-16.39 Peak
8	2415.000	47.65	27.54	5.68	32.53	48.34	54.00	-5.66 Average
9	2465.000	61.63	27.49	5.70	36.08	58.74	74.00	-15.26 Peak
10	2465.000	52.23	27.49	5.70	36.08	49.34	54.00	-4.66 Average

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Job No. : 128RF
 EUT : MID
 Model : TAB-1040
 Test mode : Downloading
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: jacky

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1085.000	65.24	24.38	3.31	40.95	51.98	74.00	-22.02 Peak
2	1085.000	55.26	24.38	3.31	40.95	42.00	54.00	-12.00 Average
3	1800.000	67.15	25.27	4.67	40.98	56.11	74.00	-17.89 Peak
4	1800.000	56.57	25.27	4.67	40.98	45.53	54.00	-8.47 Average
5	1950.000	69.67	25.93	4.79	40.88	59.51	74.00	-14.49 Peak
6	1950.000	60.36	25.93	4.79	40.88	50.20	54.00	-3.80 Average
7	2515.000	58.86	27.57	5.78	38.73	53.48	74.00	-20.52 Peak
8	2515.000	47.74	27.57	5.78	38.73	42.36	54.00	-11.64 Average
9	3240.000	55.86	28.54	6.04	40.24	50.20	74.00	-23.80 Peak