Report No: CCIS12100020404

FCC REPORT

Applicant:	Azumi S.A
Address of Applicant:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama City, Rep. Panama

Equipment Under Test (EUT)

Product Name:	Mobile phone
Model No.:	Q15
FCC ID:	QRP-AZUMIQ10G
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B: 2011
Date of sample receipt:	22 Oct., 2012
Date of Test:	24 Oct., to 26 Oct., 2012
Date of report issued:	27 Oct., 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.

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	27 Oct., 2012	*Original*

Prepared By:  ***Date:*** 27 Oct., 2012

Project Engineer

Check By:  ***Date:*** 27 Oct., 2012

Reviewer

3 Contents

Page

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:	Azumi S.A
Address of Applicant:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama City, Rep. Panama
Manufacturer:	ZECHIN Technology Co., Ltd
Address of Manufacturer:	Unit804,8th Floor Desay Tech Building Gaoxin Road South,Nanshan District Shenzhen,China
Factory:	Longconn Electronics(Shenzhen) Co.;Ltd
Address of Factory:	(Xinchuangji Industrial park) NO. 42,Xingye 1 Road,Phoenix 1st Industrial Zone,Fuyong Town,Baoan District, Shenzhen,518103 ,China

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	Q15
AC adapter:	Input:100-240V AC,50/60Hz 0.15A Output:5V DC MAX 400mA
Power supply:	Rechargeable Li-ion Battery DC3.7V/630mAh

5.3 Operating Modes

Operating mode	Detail description
Downloading mode	Keep the EUT in Downloading mode(Worst case)
Camera mode	Keep the EUT in Camera mode
Play mode	Keep the EUT in Play mode
Recording mode	Keep the EUT in Recording mode
All modes have been tested, But the worst case mode data 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	SDC4/4GBSP	136361	DoC

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 out 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	Printer	Hp	HP LaserJet P1007	N/A	N/A	N/A
14	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A

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

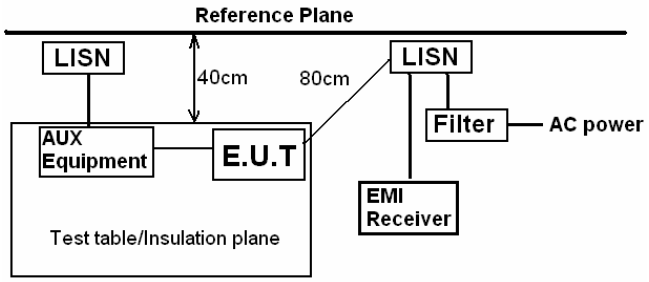
7 Test results and Measurement Data

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:	

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:



Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m

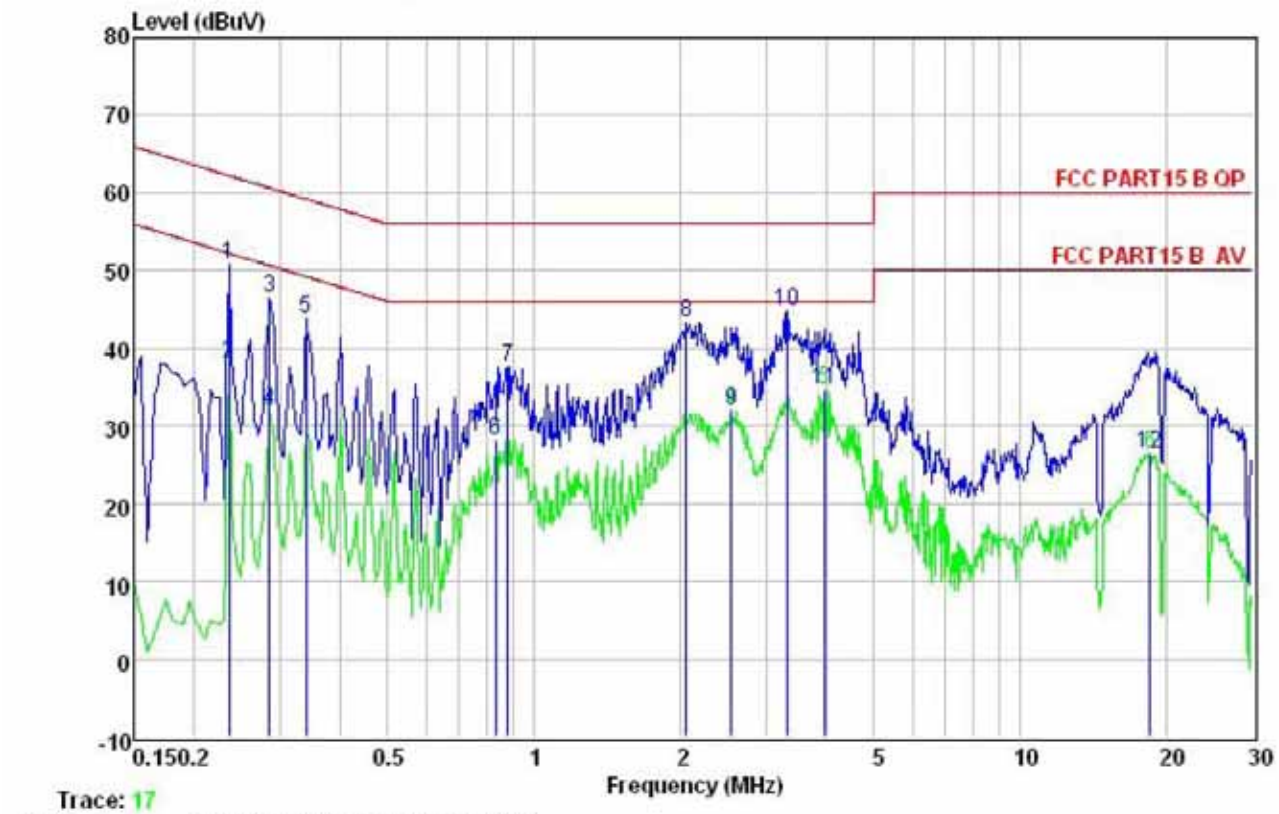
Test procedure

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 worse case mode.				
Test results:	Pass				

Measurement data:

Line:

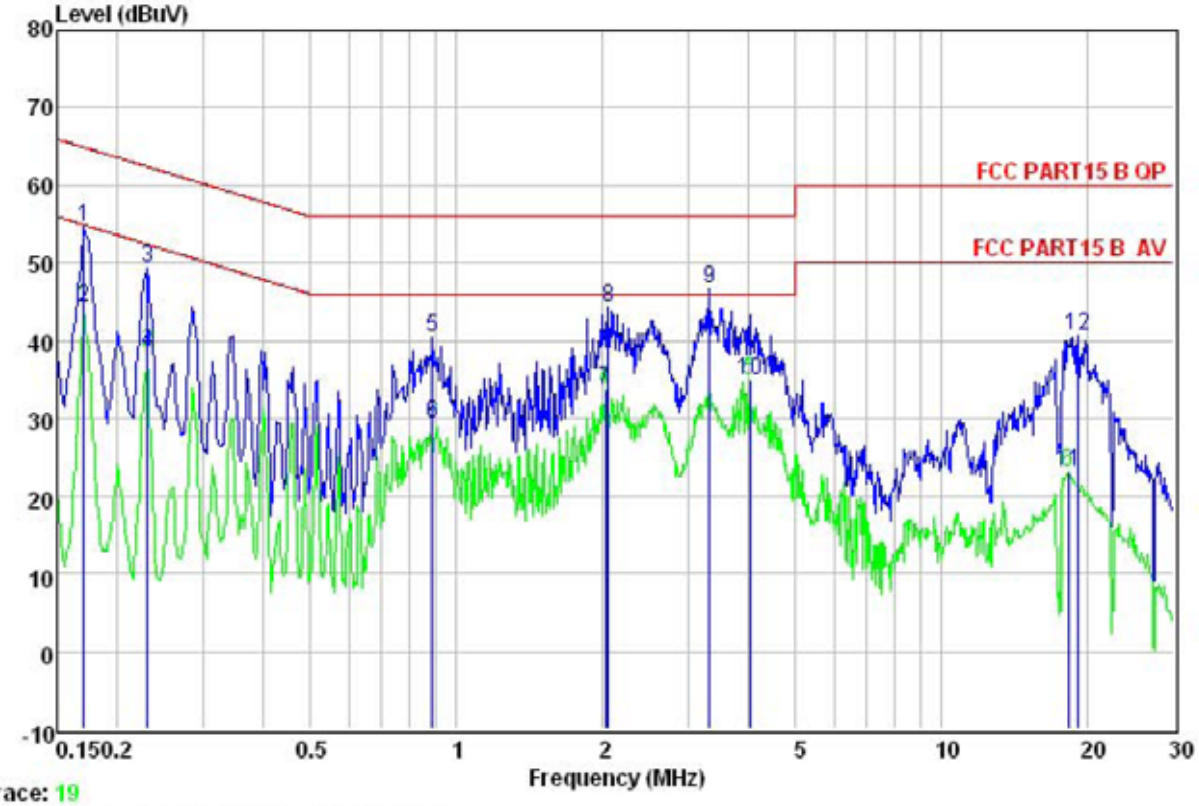


Trace: 17

Site : CCIS Conducted Test Site
Condition : FCC PART15 B QP LISN LINE
Job NO. : 204RF
Test Mode : downloading mode
Test engieer: Joe
Power Rating: AC 120V/60Hz

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.235	39.76	10.23	0.75	50.74	62.26	-11.52	QP
2	0.235	26.98	10.23	0.75	37.96	52.26	-14.30	Average
3	0.285	35.42	10.25	0.74	46.41	60.68	-14.27	QP
4	0.285	21.06	10.25	0.74	32.05	50.68	-18.63	Average
5	0.339	32.71	10.27	0.73	43.71	59.22	-15.51	QP
6	0.830	17.14	10.19	0.82	28.15	46.00	-17.85	Average
7	0.880	26.55	10.20	0.84	37.59	56.00	-18.41	QP
8	2.055	32.04	10.28	0.96	43.28	56.00	-12.72	QP
9	2.540	20.77	10.28	0.94	31.99	46.00	-14.01	Average
10	3.310	33.61	10.29	0.90	44.80	56.00	-11.20	QP
11	3.943	23.41	10.29	0.89	34.59	46.00	-11.41	Average
12	18.426	15.17	10.30	0.92	26.39	50.00	-23.61	Average

Neutral:



Trace: 19

Site : CCIS Conducted Test Site
Condition : FCC PART15 B QP LISN NEUTRAL
Job NO. : 204RF
Test Mode : downloading mode
Test engieer: Joe
Power Rating: AC 120V/60Hz

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.170	43.58	10.25	0.78	54.61	64.94	-10.33	QP
2	0.170	33.27	10.25	0.78	44.30	54.94	-10.64	Average
3	0.230	38.49	10.23	0.75	49.47	62.44	-12.97	QP
4	0.230	27.52	10.23	0.75	38.50	52.44	-13.94	Average
5	0.890	29.47	10.19	0.84	40.50	56.00	-15.50	QP
6	0.890	18.31	10.19	0.84	29.34	46.00	-16.66	Average
7	2.023	22.34	10.27	0.96	33.57	46.00	-12.43	Average
8	2.055	33.06	10.27	0.96	44.29	56.00	-11.71	QP
9	3.310	35.55	10.28	0.90	46.73	56.00	-9.27	QP
10	4.006	23.64	10.28	0.89	34.81	46.00	-11.19	Average
11	18.232	11.76	10.31	0.92	22.99	50.00	-27.01	Average
12	19.021	29.52	10.32	0.93	40.77	60.00	-19.23	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:

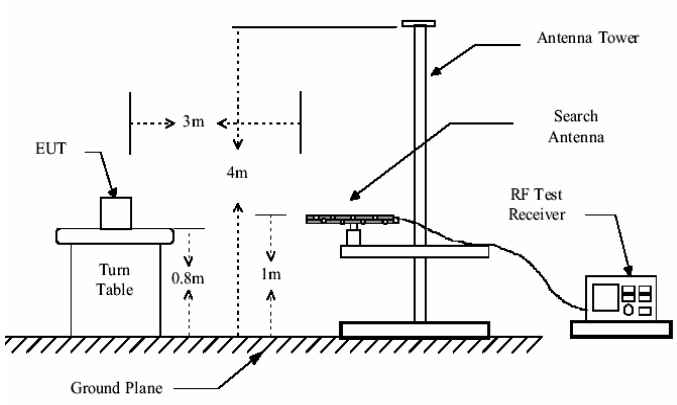
Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Peak	1MHz	10Hz	Average Value

Limit:

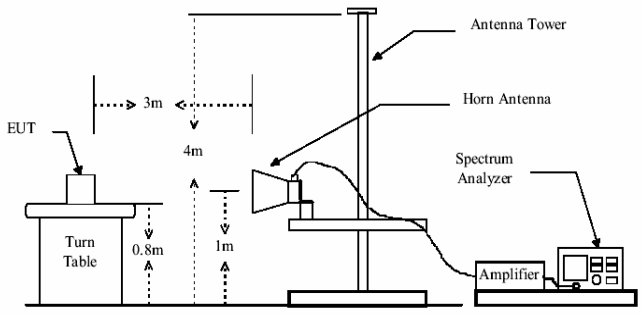
Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test setup:

Below 1GHz



Above 1GHz

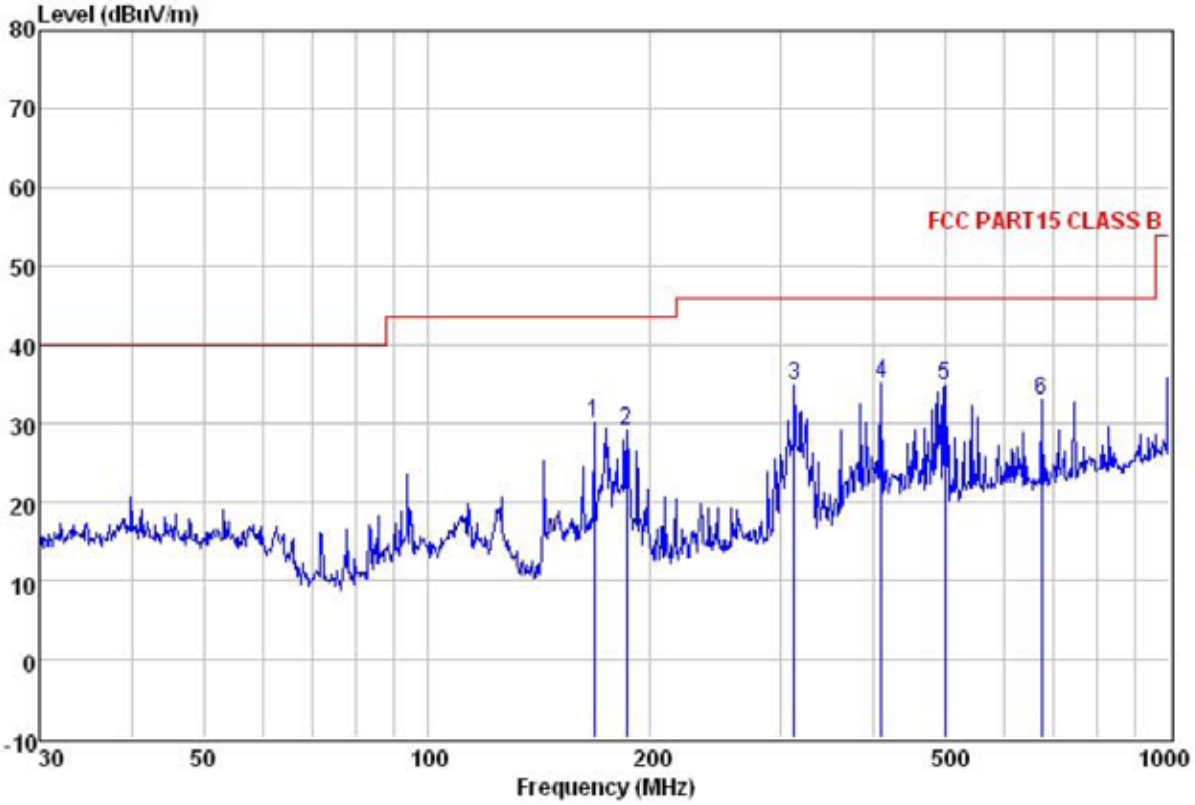


Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was 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 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 bleow mode which it is worse case mode.
Test results:	Passed

Measurement Data

Below 1GHz

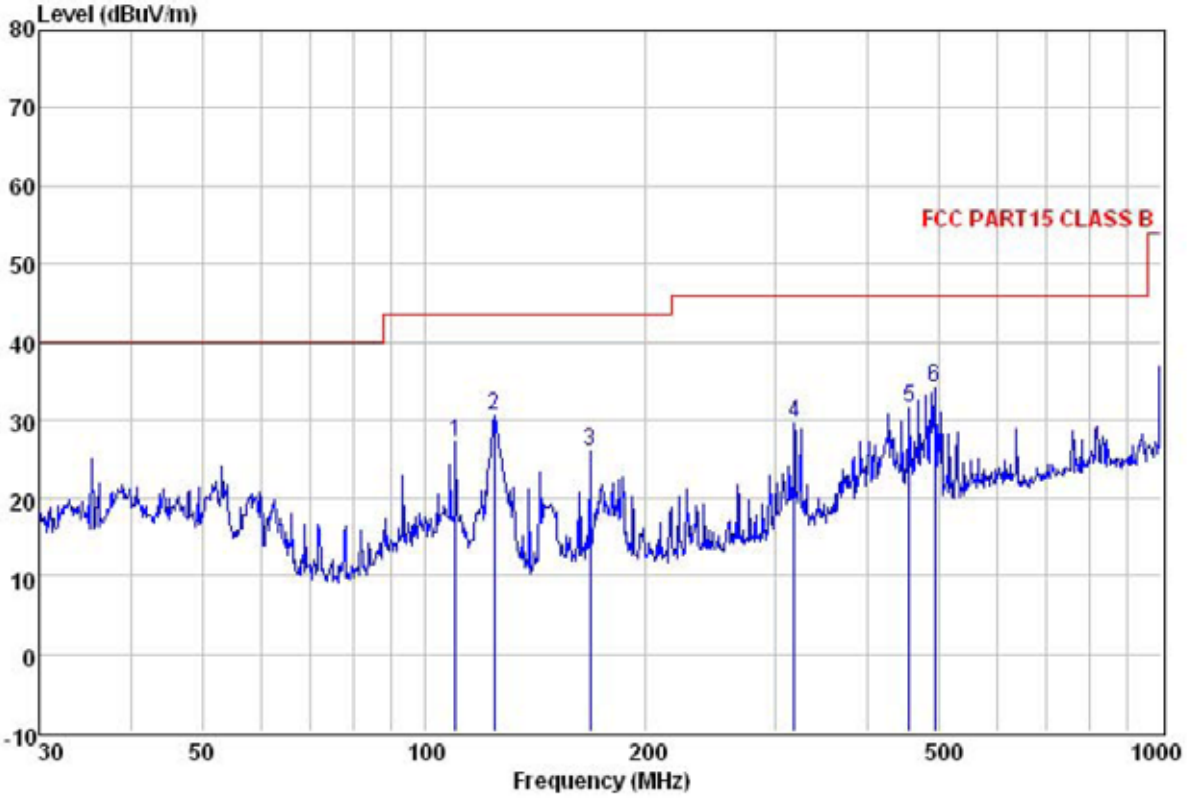
Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) HORIZONTAL
Job No. : 204RF
Test mode : downloading mode
Test Engineer: Joe

	Freq	Read 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	167.824	47.63	8.90	2.64	29.01	30.16	43.50	-13.34	QP
2	185.788	44.61	10.16	2.77	28.55	28.99	43.50	-14.51	QP
3	312.179	48.23	13.22	2.98	29.49	34.94	46.00	-11.06	QP
4	408.946	46.73	15.27	3.10	30.00	35.10	46.00	-10.90	QP
5	499.425	45.17	16.58	3.61	30.52	34.84	46.00	-11.16	QP
6	672.845	40.78	18.72	4.00	30.59	32.91	46.00	-13.09	QP

Vertical:

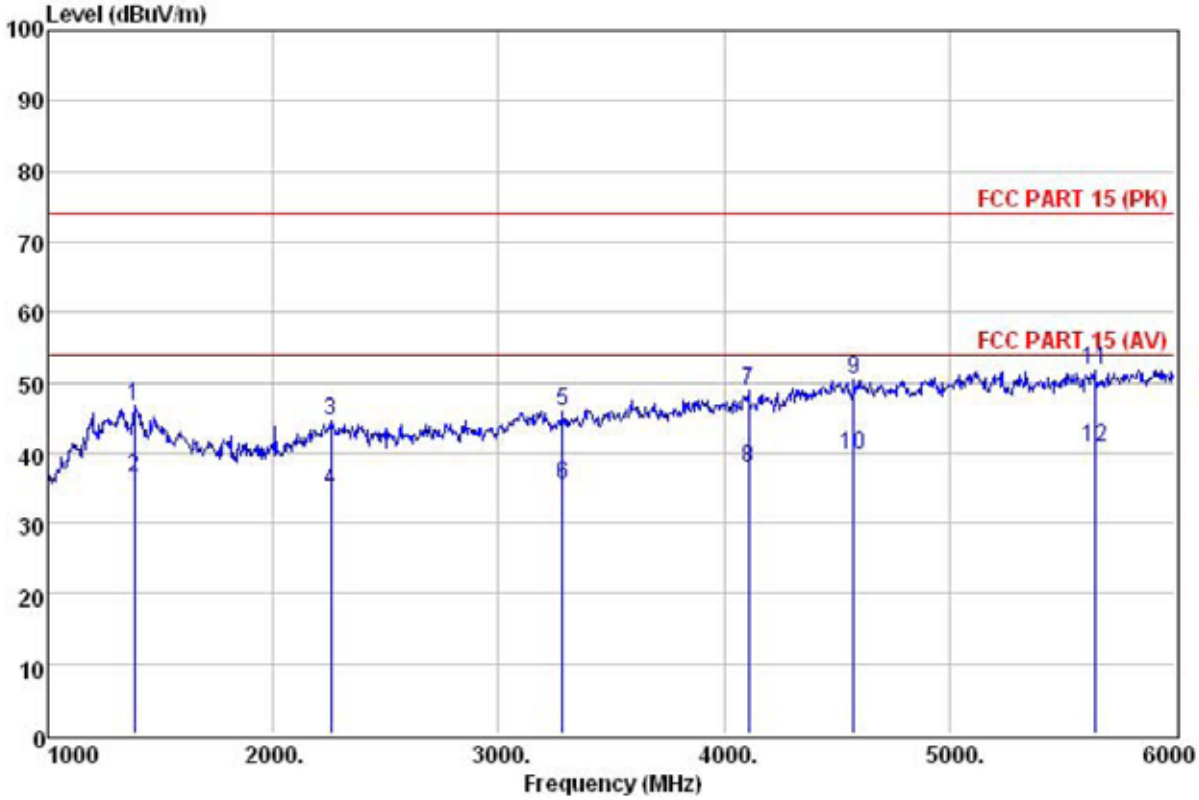


Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) VERTICAL
Job No. : 204RF
Test mode : downloading mode
Test Engineer: Joe

	Freq	Read 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	110.182	42.73	12.25	2.05	29.88	27.15	43.50	-16.35	QP
2	124.569	48.06	9.80	2.22	29.62	30.46	43.50	-13.04	QP
3	167.824	43.41	8.90	2.64	29.01	25.94	43.50	-17.56	QP
4	317.701	42.80	13.31	3.00	29.52	29.59	46.00	-16.41	QP
5	455.906	43.29	15.58	3.25	30.52	31.60	46.00	-14.40	QP
6	492.469	44.64	16.39	3.55	30.52	34.06	46.00	-11.94	QP

Above 1GHz

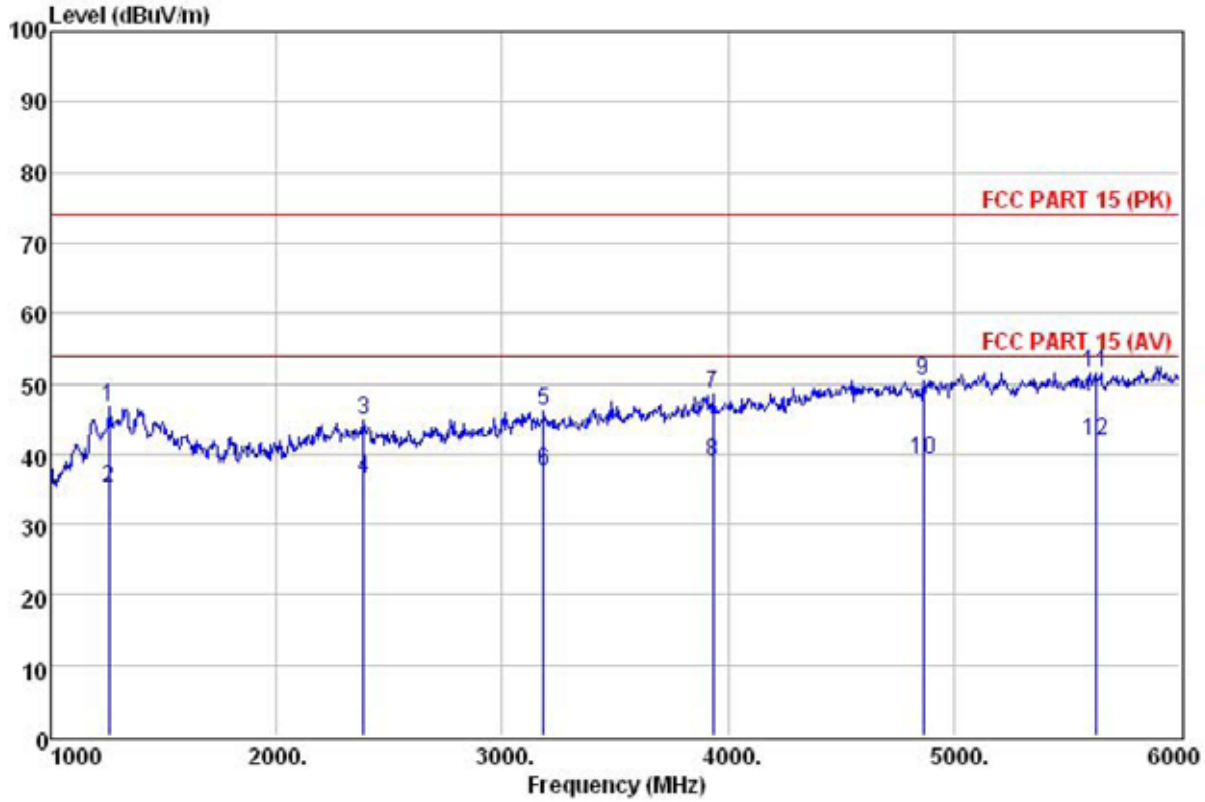
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(>1GHZ) HORIZONTAL
Job No. : 204RF
Test mode : downloading mode
Test Engineer: Joe

	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	1385.000	39.68	25.50	2.86	21.39	46.65	74.00	-27.35	Peak
2	1385.000	29.42	25.50	2.86	21.39	36.39	54.00	-17.61	Average
3	2255.000	43.32	28.02	3.72	30.50	44.56	74.00	-29.44	Peak
4	2255.000	33.42	28.02	3.72	30.50	34.66	54.00	-19.34	Average
5	3285.000	41.46	28.41	4.66	28.71	45.82	74.00	-28.18	Peak
6	3285.000	30.95	28.41	4.66	28.71	35.31	54.00	-18.69	Average
7	4110.000	39.60	30.06	5.38	26.29	48.75	74.00	-25.25	Peak
8	4110.000	28.67	30.06	5.38	26.29	37.82	54.00	-16.18	Average
9	4575.000	38.14	30.92	5.72	24.43	50.35	74.00	-23.65	Peak
10	4575.000	27.46	30.92	5.72	24.43	39.67	54.00	-14.33	Average
11	5645.000	36.97	32.13	6.37	23.83	51.64	74.00	-22.36	Peak
12	5645.000	25.98	32.13	6.37	23.83	40.65	54.00	-13.35	Average

Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(>1GHZ) VERTICAL
Job No. : 204RF
Test mode : downloading mode
Test Engineer: Joe

	Freq	Read 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	1260.000	37.90	25.50	2.69	19.42	46.67	74.00	-27.33	Peak
2	1260.000	26.47	25.50	2.69	19.42	35.24	54.00	-18.76	Average
3	2385.000	43.41	27.58	3.81	30.15	44.65	74.00	-29.35	Peak
4	2385.000	35.13	27.58	3.81	30.15	36.37	54.00	-17.63	Average
5	3185.000	42.12	28.76	4.55	29.20	46.23	74.00	-27.77	Peak
6	3185.000	33.50	28.76	4.55	29.20	37.61	54.00	-16.39	Average
7	3935.000	40.23	29.78	5.23	26.80	48.44	74.00	-25.56	Peak
8	3935.000	30.55	29.78	5.23	26.80	38.76	54.00	-15.24	Average
9	4865.000	36.98	31.57	5.91	24.03	50.43	74.00	-23.57	Peak
10	4865.000	25.64	31.57	5.91	24.03	39.09	54.00	-14.91	Average
11	5630.000	36.90	32.11	6.35	23.82	51.54	74.00	-22.46	Peak
12	5630.000	27.05	32.11	6.35	23.82	41.69	54.00	-12.31	Average