



FCC REPORT

Applicant: STAR COMPUTER GROUP INC.

Address of Applicant: 2175 NW 115th Avenue, Miami FL 33172, USA

Equipment Under Test (EUT)

Product Name: Mobile phone

Model No.: A18

Trade mark: Argom Tech

FCC ID: PRMA18

Applicable standards: FCC CFR Title 47 Part 15 Subpart B: 2011

Date of sample receipt: 27 Aug., 2012

Date of Test: 28 Aug., to 03 Sep., 2012

Date of report issued: 03 Sep., 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	03 Sep., 2012	Original

Prepared By:

Joe. Zhou

Project Engineer

Date:

03 Sep., 2012

Check By:

Bruce Zhang

Reviewer

Date:

03 Sep., 2012

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
5 GENERAL INFORMATION	5
5.1 CLIENT INFORMATION	5
5.2 GENERAL DESCRIPTION OF E.U.T.	5
5.3 OPERATING MODES	5
5.4 DESCRIPTION OF SUPPORT UNITS	6
5.5 DEVIATION FROM STANDARDS.....	6
5.6 ABNORMALITIES FROM STANDARD CONDITIONS	6
5.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
5.8 TEST FACILITY.....	6
5.9 TEST LOCATION	6
6 TEST INSTRUMENTS LIST	7
7 TEST RESULTS AND MEASUREMENT DATA	8
7.1 CONDUCTED EMISSIONS.....	8
7.2 RADIATED EMISSION	11
8 TEST SETUP PHOTO	17
9 EUT CONSTRUCTIONAL DETAILS	19

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:	STAR COMPUTER GROUP INC.
Address of Applicant:	2175 NW 115th Avenue, Miami FL 33172, USA
Manufacturer/ Factory:	MOBIWIRE MOBILES (NINGBO) Co.,Ltd
Address of Manufacturer/ Factory:	No.999,Dacheng East Road,Fenghua City,Zhejiang

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	A18
Trade mark:	Argom Tech
AC adapter:	Trade Mark: A18 Input:100-240V AC,50/60Hz 0.3A Output:5V DC MAX 500mA
Power supply:	Rechargeable Li-ion Battery DC3.7V/850mAh

5.3 Operating Modes

Operating mode	Detail description
Downloading mode	Keep the EUT in Downloading mode
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

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 our 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.
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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

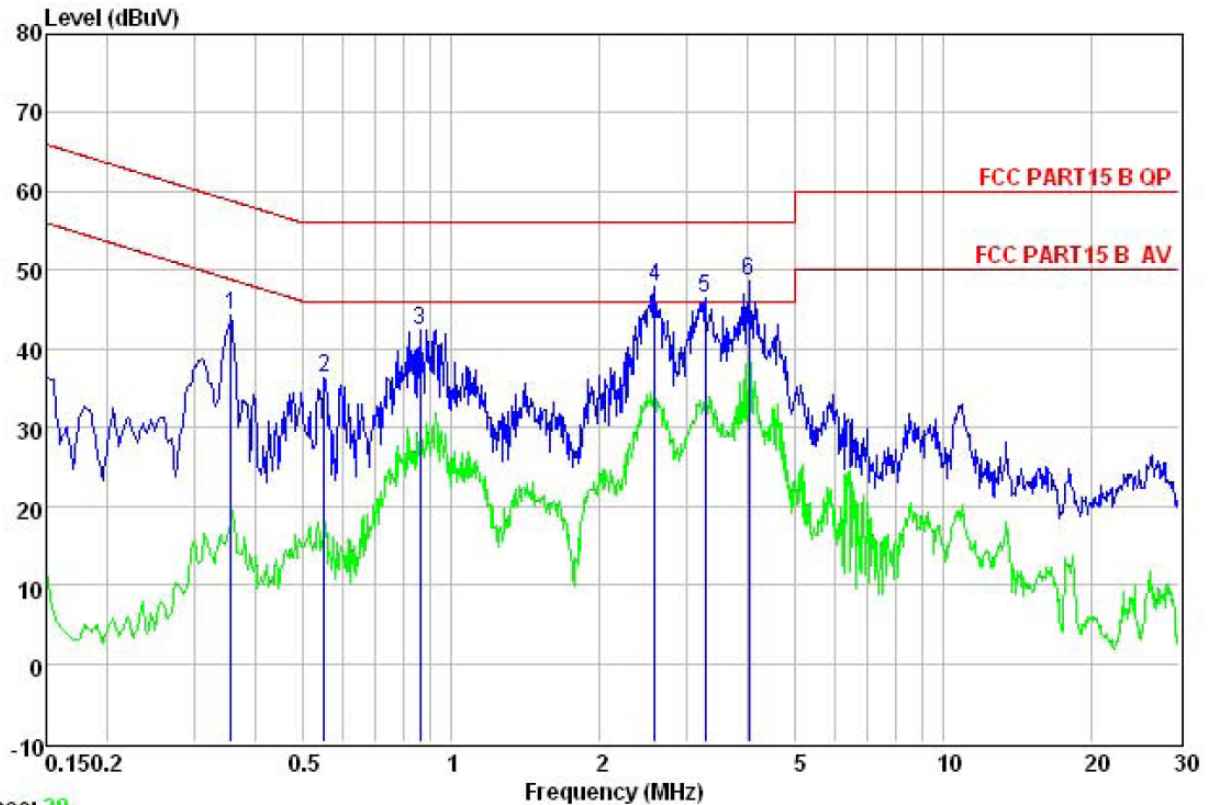
7 Test results and Measurement Data

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:	<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:	Reference Plane Test table/Insulation plane <i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i>																
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%														
Measurement Record:	Press.:	1 012mbar	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:

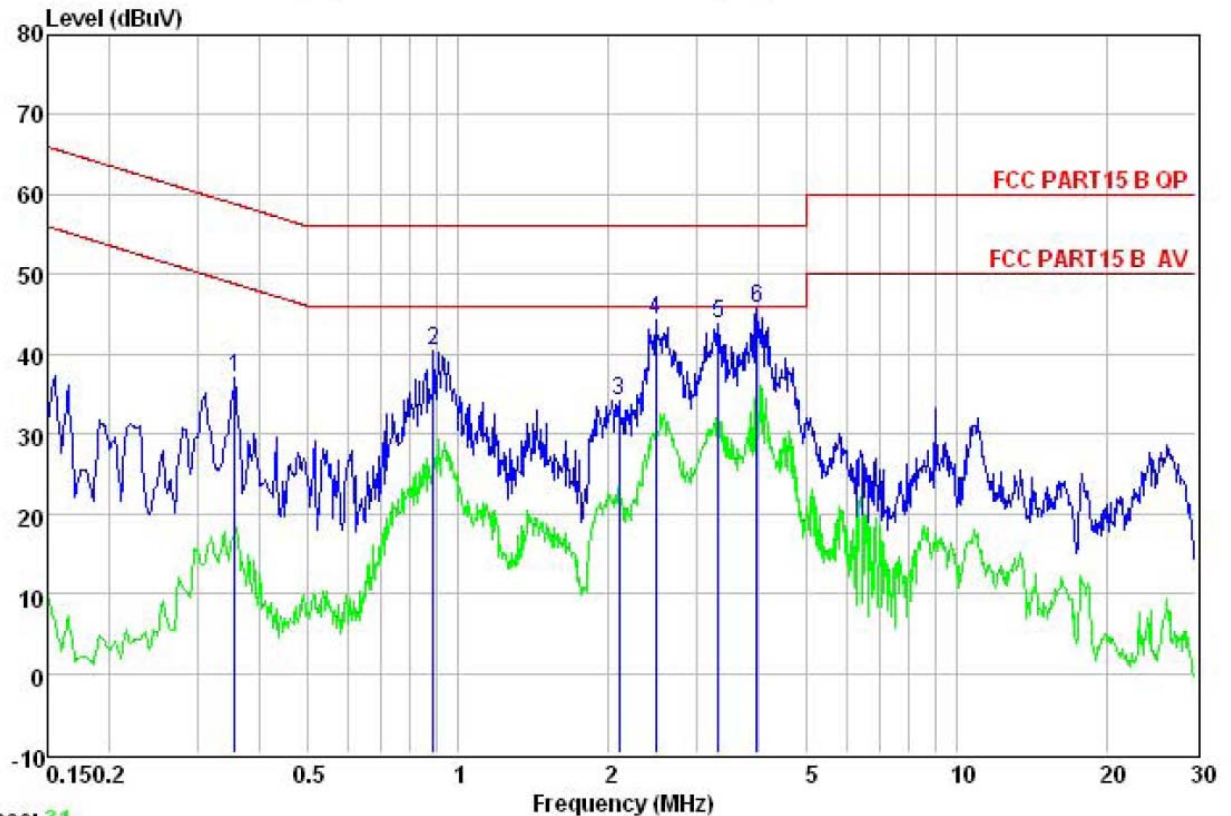


Trace: 29

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job NO. : 145RF
 Test Mode : downloading mode
 Test engineer: Joe

	Read Freq	Level dBuV	LISN Factor dB	Cable Loss dB	Level dBuV	Limit Line dBuV	Over Limit dB	Remark
	MHz							
1	0.356	33.19	10.27	0.73	44.19	58.83	-14.64	QP
2	0.549	25.27	10.24	0.76	36.27	56.00	-19.73	QP
3	0.862	31.44	10.20	0.83	42.47	56.00	-13.53	QP
4	2.581	36.65	10.28	0.94	47.87	56.00	-8.13	QP
5	3.276	35.26	10.29	0.90	46.45	56.00	-9.55	QP
6	4.006	37.38	10.29	0.89	48.56	56.00	-7.44	QP

Neutral:



Trace: 31

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job NO. : 145RF
 Test Mode : downloading mode
 Test engineer: Joe

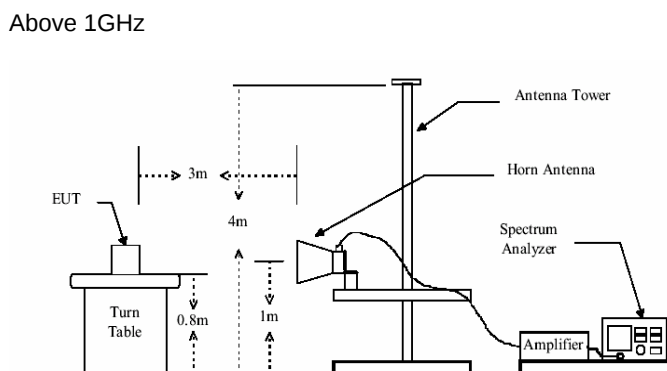
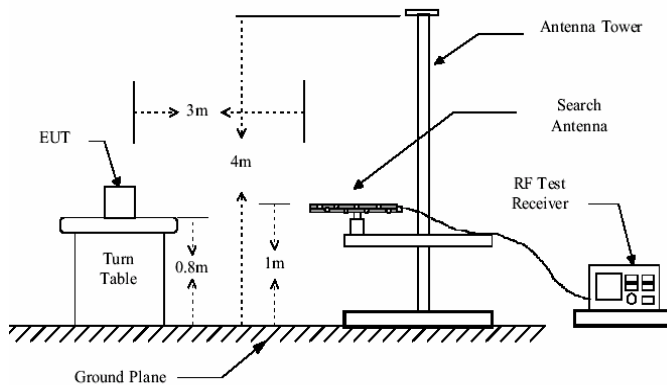
	Read Freq	LISN Level	Cable Factor	Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.356	26.11	10.25	0.73	37.09	58.83	-21.74	QP
2	0.890	29.36	10.19	0.84	40.39	56.00	-15.61	QP
3	2.099	22.94	10.27	0.96	34.17	56.00	-21.83	QP
4	2.487	33.14	10.27	0.95	44.36	56.00	-11.64	QP
5	3.310	32.62	10.28	0.90	43.80	56.00	-12.20	QP
6	3.964	34.46	10.28	0.89	45.63	56.00	-10.37	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
	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

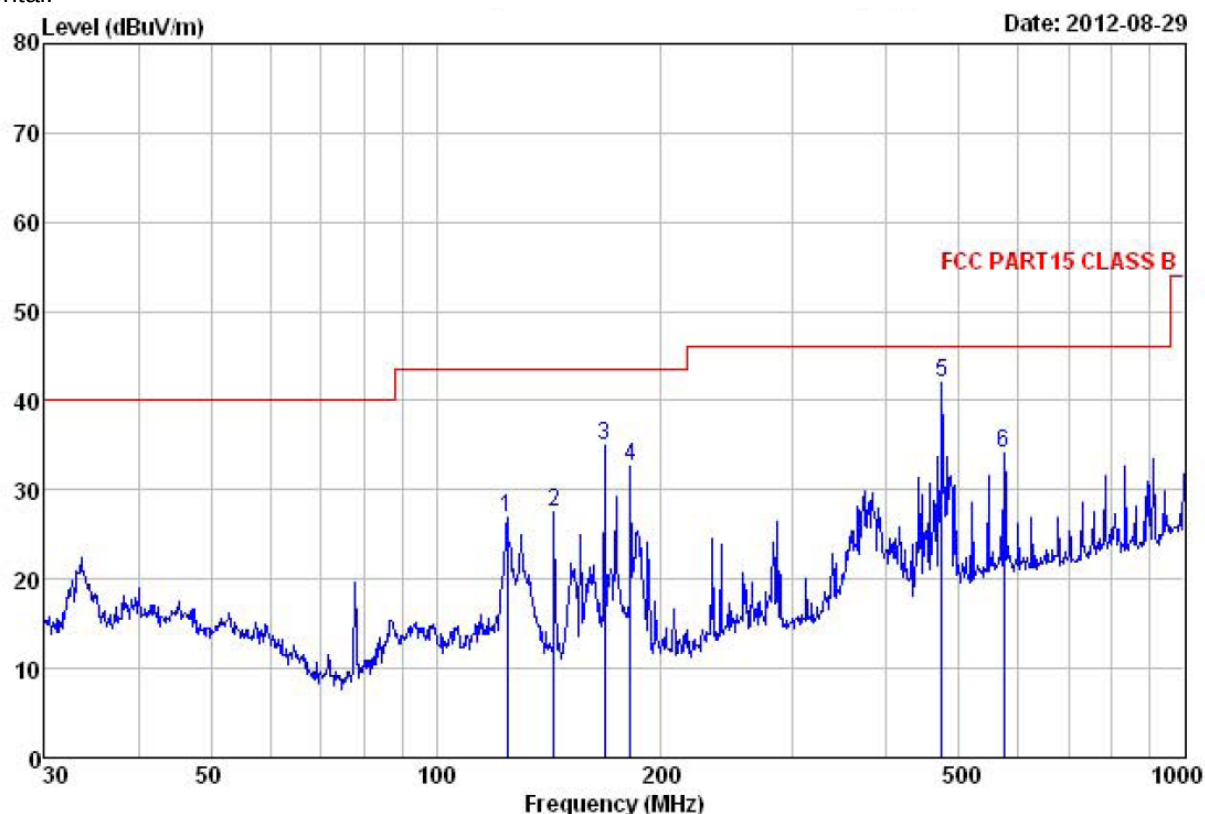


Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was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

Measurement Data

Below 1GHz

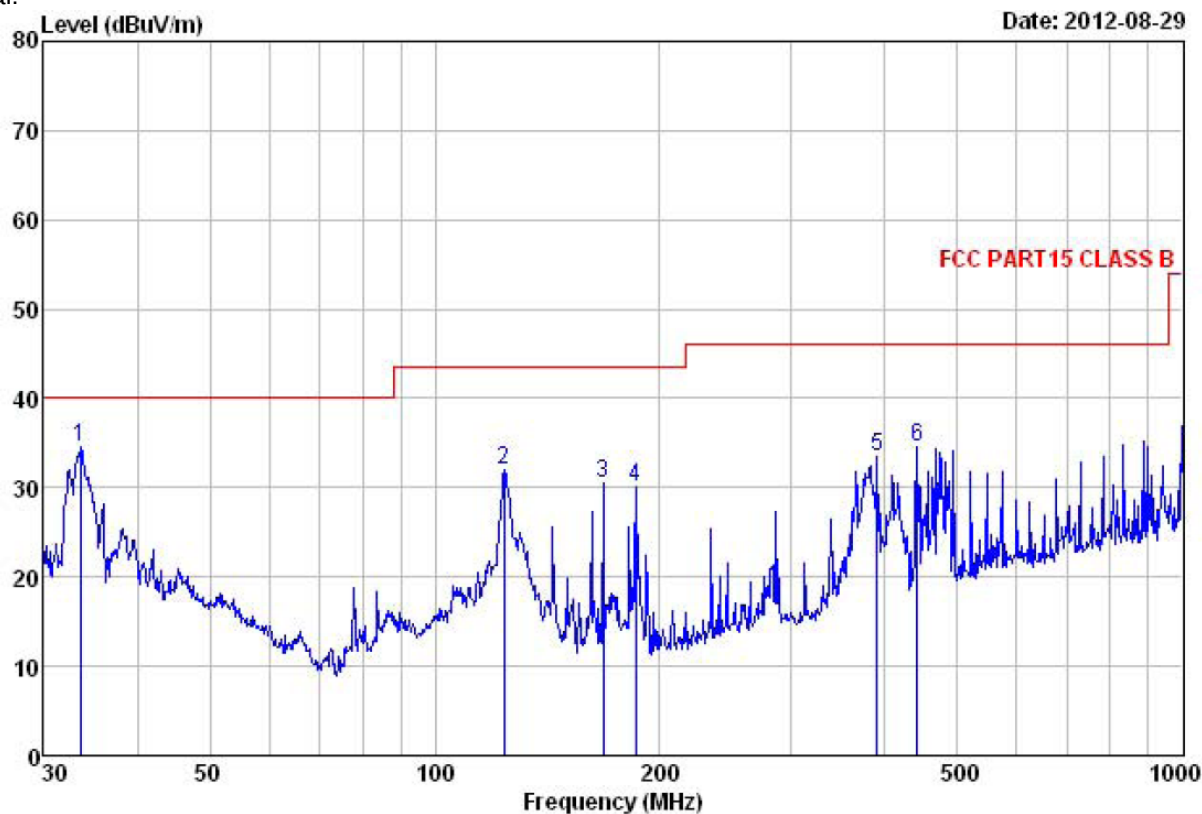
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) HORIZONTAL
 Job No. : 145RF
 Test mode : downloading
 Test Engineer: Joe

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
		Level Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	124.569	44.50	9.80	2.22	29.62	26.90	43.50 -16.60 QP
2	143.830	46.23	8.22	2.44	29.32	27.57	43.50 -15.93 QP
3	167.824	52.55	8.90	2.64	29.01	35.08	43.50 -8.42 QP
4	181.920	47.06	9.84	2.74	27.02	32.62	43.50 -10.88 QP
5	473.835	53.16	15.95	3.40	30.52	41.99	46.00 -4.01 QP
6	572.614	42.81	17.98	3.91	30.54	34.16	46.00 -11.84 QP

Vertical:

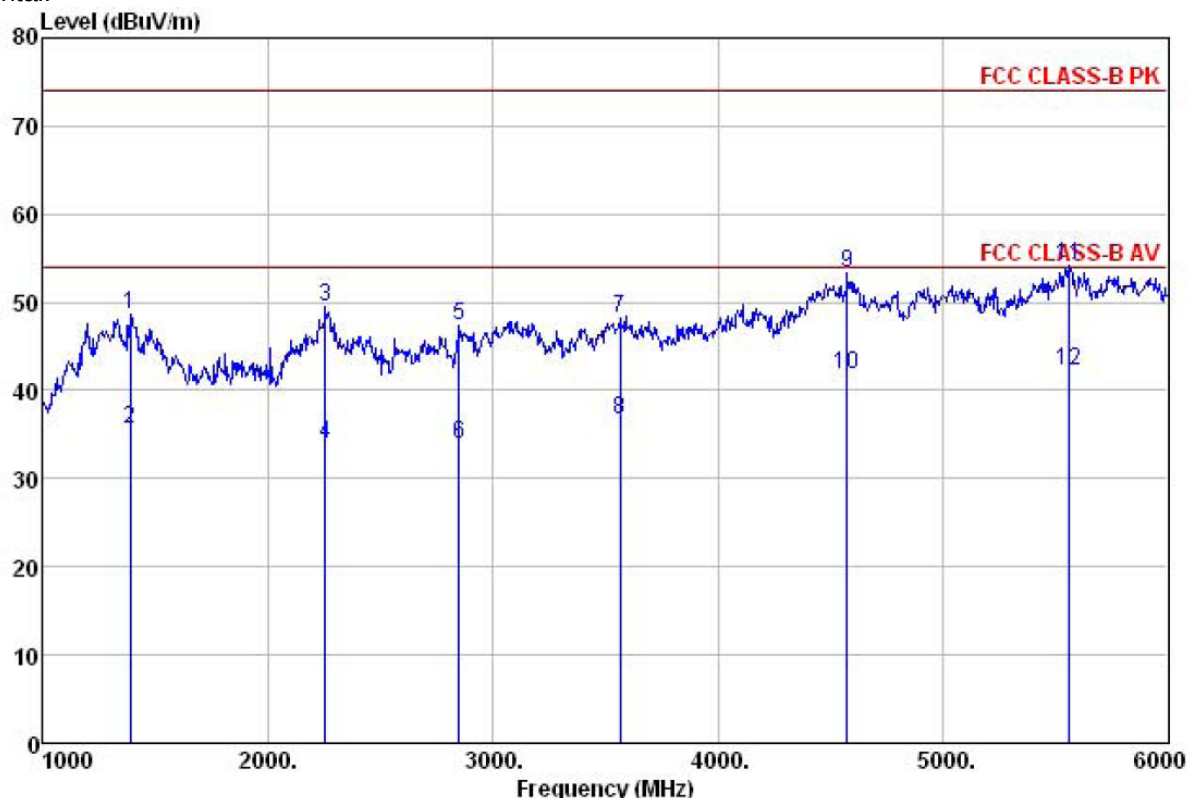


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) VERTICAL
 Job No. : 145RF
 Test mode : downloading
 Test Engineer: Joe

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
		Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	33.562	47.88	12.31	0.98	26.65	34.52	40.00	-5.48 QP
2	123.699	49.59	9.90	2.21	29.64	32.06	43.50	-11.44 QP
3	167.824	47.96	8.90	2.64	29.01	30.49	43.50	-13.01 QP
4	185.788	45.76	10.16	2.77	28.55	30.14	43.50	-13.36 QP
5	390.723	45.30	14.87	3.08	29.86	33.39	46.00	-12.61 QP
6	441.743	46.20	15.56	3.18	30.42	34.52	46.00	-11.48 QP

Above 1GHz

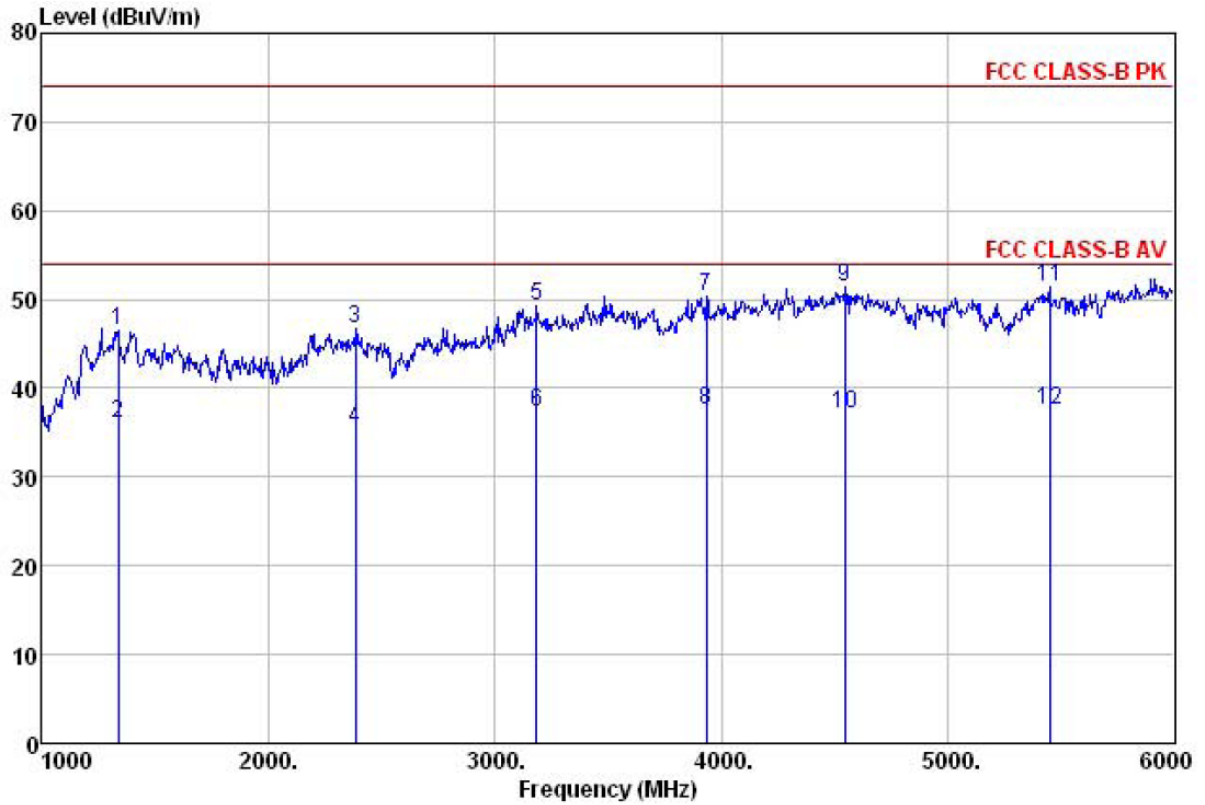
Horizontal:



Site : 3m chamber
 Condition : FCC CLASS-B PK 3m BBHA9120(>1GHZ) HORIZONTAL
 Job No. : 145RF
 Test mode : downloading mode
 Test Engineer: Joe

	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	1385.000	41.68	25.50	2.86	21.39	48.65	74.00 -25.35 Peak
2	1385.000	28.60	25.50	2.86	21.39	35.57	54.00 -18.43 Average
3	2255.000	48.32	28.02	3.72	30.50	49.56	74.00 -24.44 Peak
4	2255.000	32.65	28.02	3.72	30.50	33.89	54.00 -20.11 Average
5	2850.000	44.98	28.38	4.20	30.10	47.46	74.00 -26.54 Peak
6	2850.000	31.50	28.38	4.20	30.10	33.98	54.00 -20.02 Average
7	3565.000	41.91	29.11	4.92	27.78	48.16	74.00 -25.84 Peak
8	3565.000	30.50	29.11	4.92	27.78	36.75	54.00 -17.25 Average
9	4575.000	41.14	30.92	5.72	24.43	53.35	74.00 -20.65 Peak
10	4575.000	29.60	30.92	5.72	24.43	41.81	54.00 -12.19 Average
11	5560.000	39.55	32.09	6.31	23.81	54.14	74.00 -19.86 Peak
12	5560.000	27.59	32.09	6.31	23.81	42.18	54.00 -11.82 Average

Vertical:



Site : 3m chamber
Condition : FCC CLASS-B PK 3m BBHA9120(>1GHZ) VERTICAL
Job No. : 145RF
Test mode : downloading mode
Test Engineer: Joe

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1335.000	38.55	25.65	2.80	20.58	46.42	74.00	-27.58	Peak
2	1335.000	28.19	25.65	2.80	20.58	36.06	54.00	-17.94	Average
3	2385.000	45.41	27.58	3.81	30.15	46.65	74.00	-27.35	Peak
4	2385.000	34.16	27.58	3.81	30.15	35.40	54.00	-18.60	Average
5	3185.000	45.12	28.76	4.55	29.20	49.23	74.00	-24.77	Peak
6	3185.000	33.16	28.76	4.55	29.20	37.27	54.00	-16.73	Average
7	3935.000	42.23	29.78	5.23	26.80	50.44	74.00	-23.56	Peak
8	3935.000	29.36	29.78	5.23	26.80	37.57	54.00	-16.43	Average
9	4545.000	39.35	30.86	5.70	24.45	51.46	74.00	-22.54	Peak
10	4545.000	25.10	30.86	5.70	24.45	37.21	54.00	-16.79	Average
11	5450.000	36.94	31.99	6.25	23.81	51.37	74.00	-22.63	Peak
12	5450.000	23.14	31.99	6.25	23.81	37.57	54.00	-16.43	Average