

FCC REPORT

Applicant: USA111 INC.

Address of Applicant: 5885 Green Pointe Dr. Suit B Groveport, Ohio, United States

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: V4

Trade mark: iRULU

FCC ID: 2ADOV-V4

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 14 Oct., 2015

Date of Test: 14 Oct., to 29 Oct., 2015

Date of report issued: 30 Oct., 2015

Test Result: Pass *

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

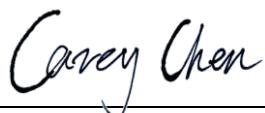
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production 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	30 Oct., 2015	Original

Tested by:**Date:**

30 Oct., 2015

Test Engineer**Reviewed by:****Date:**

30 Oct., 2015

Project Engineer

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass

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

5 General Information

5.1 Client Information

Applicant:	USA111 INC.
Address of Applicant:	5885 Green Pointe Dr.Suit B Groveport, Ohio, United States
Manufacturer/ Factory:	IDEA INTERNATIONAL DEVELOPMENT LIMITED
Address of Manufacturer/ Factory:	8/F, Building A, Huazhong University of Science and Technology Mansion, Yuexing 3 Rd, High-techSouthZone, Nanshan District, Shenzhen, China.

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	V4
Power supply:	Rechargeable Li-ion Battery DC3.8V-2500mAh
AC adapter :	Model: TPA-655100UU Input:100-240V AC,50/60Hz 0.2A Output:5V DC MAX 1000mA

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver 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
MERCURY	Wireless router	MW150R	12922104015	FCC ID
NAKAMICHI	Bluetooth earphone	T8	N/A	FCC ID

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: +86-755-23118282

Fax: +86-755-23116366

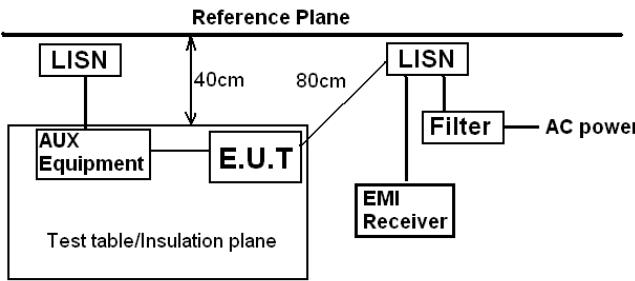
5.7 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-28-2015	03-28-2016
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2015	03-28-2016
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016

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	11-10-2012	11-09-2015
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016

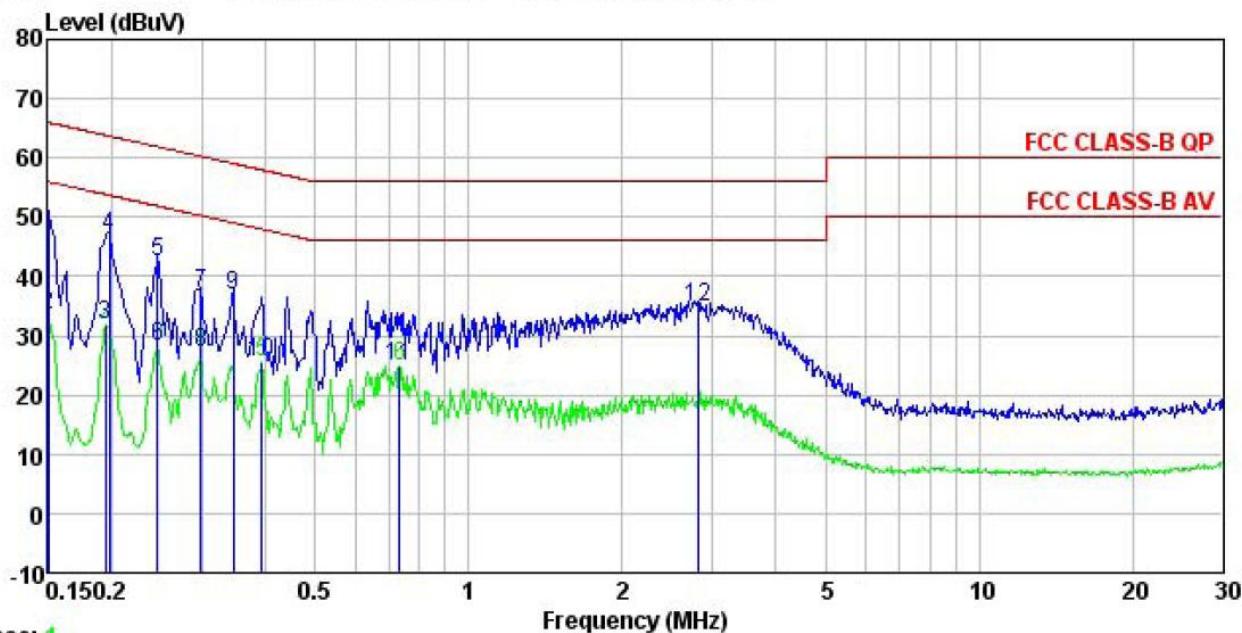
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107					
Test Method:	ANSI C63.4:2009					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz)	Limit (dB μ V)				
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30	60	50			
* Decreases with the logarithm of the frequency.						
Test setup:	 <p>Reference Plane</p> <p>LISN</p> <p>40cm</p> <p>80cm</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>					
Test procedure	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). They 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 refer 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: 2009 on conducted measurement. 					
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:

Line:

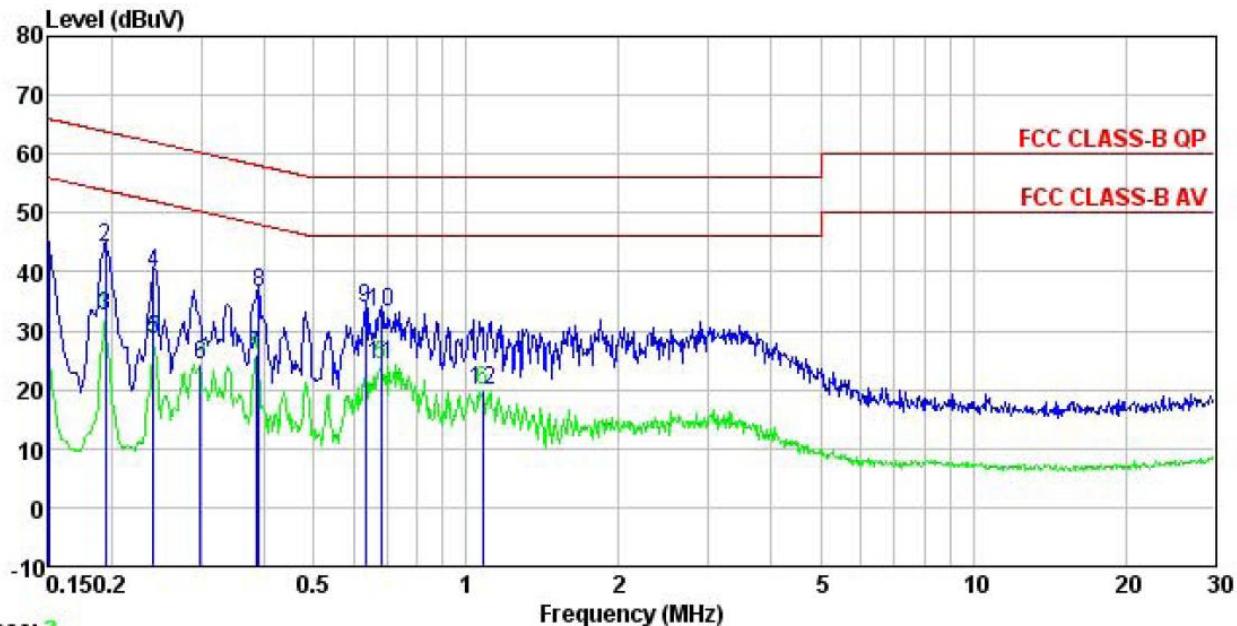


Trace: 1

Site : CCIS Shielding Room
 Condition : FCC CLASS-B QP LISN LINE
 Ror : 788RF
 EUT : Mobile Phone
 Model : V4
 Test Mode : PC mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Huni:56% Atmos:101KPa
 Test Engineer: Carey
 Remark :

	Read Freq	LISN Level	Cable Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	39.15	0.27	10.78	50.20	66.00	-15.80 QP
2	0.150	22.58	0.27	10.78	33.63	56.00	-22.37 Average
3	0.194	20.77	0.28	10.76	31.81	53.84	-22.03 Average
4	0.198	35.90	0.28	10.76	46.94	63.71	-16.77 QP
5	0.246	31.37	0.27	10.75	42.39	61.91	-19.52 QP
6	0.246	17.21	0.27	10.75	28.23	51.91	-23.68 Average
7	0.299	26.08	0.26	10.74	37.08	60.28	-23.20 QP
8	0.299	16.24	0.26	10.74	27.24	50.28	-23.04 Average
9	0.346	25.93	0.27	10.73	36.93	59.05	-22.12 QP
10	0.393	14.58	0.28	10.72	25.58	47.99	-22.41 Average
11	0.731	13.98	0.22	10.78	24.98	46.00	-21.02 Average
12	2.809	23.76	0.27	10.93	34.96	56.00	-21.04 QP

Neutral:



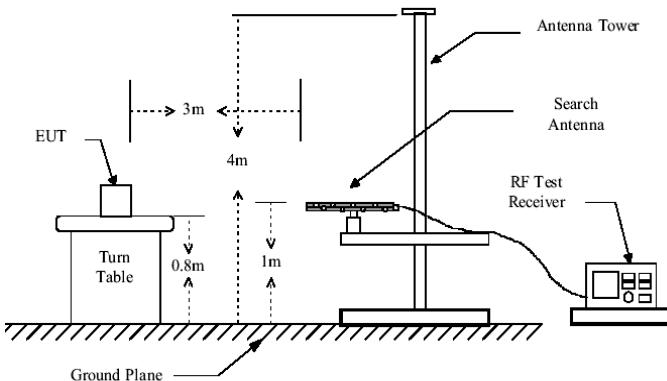
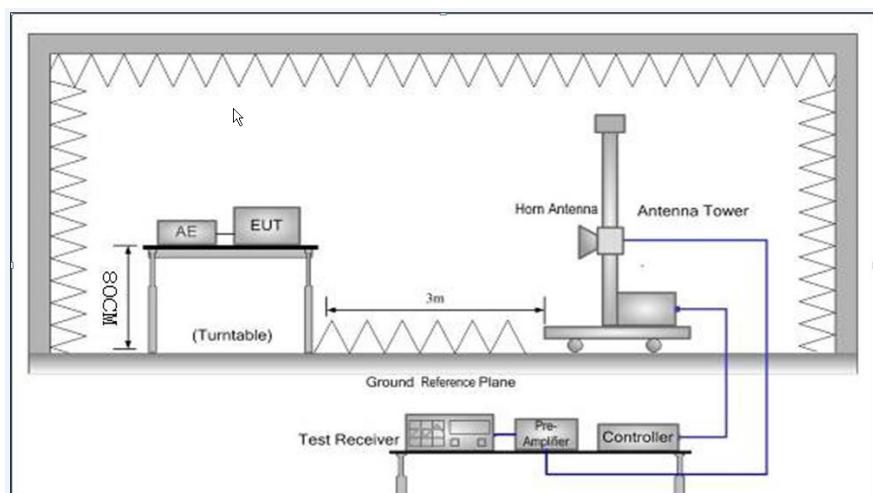
Site : CCIS Shielding Room
 Condition : FCC CLASS-B QP LISN NEUTRAL
 Ror : 788RF
 EUT : Mobile Phone
 Model : V4
 Test Mode : PC mode
 Power Rating : AC 120W/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Carey
 Remark :

	Read	LISN	Cable	Limit	Over			
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV		dB	dBuV	dBuV		
1	0.150	33.22	0.25	10.78	44.25	66.00	-21.75	QP
2	0.194	33.23	0.25	10.76	44.24	63.84	-19.60	QP
3	0.194	21.50	0.25	10.76	32.51	53.84	-21.33	Average
4	0.242	28.87	0.25	10.75	39.87	62.04	-22.17	QP
5	0.242	17.39	0.25	10.75	28.39	52.04	-23.65	Average
6	0.299	13.30	0.26	10.74	24.30	50.28	-25.98	Average
7	0.385	14.77	0.25	10.72	25.74	48.17	-22.43	Average
8	0.389	25.53	0.25	10.72	36.50	58.08	-21.58	QP
9	0.634	22.78	0.21	10.77	33.76	56.00	-22.24	QP
10	0.679	22.09	0.19	10.77	33.05	56.00	-22.95	QP
11	0.679	13.36	0.19	10.77	24.32	46.00	-21.68	Average
12	1.077	8.74	0.23	10.88	19.85	46.00	-26.15	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.

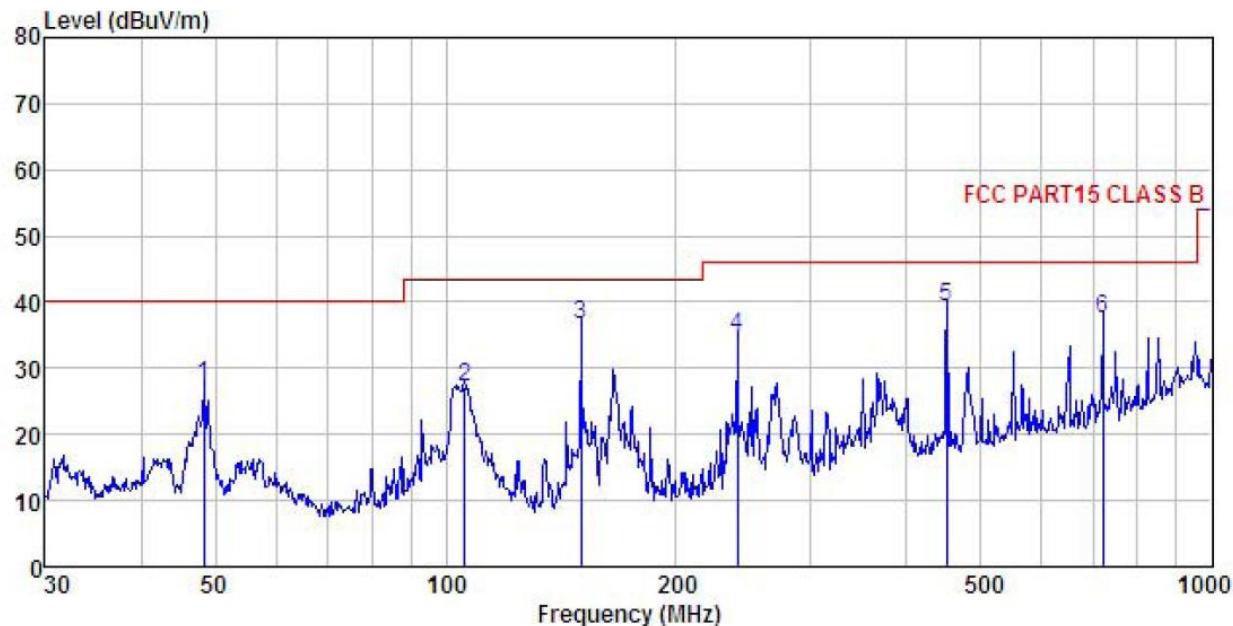
6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:2009								
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	120kHz	300kHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak 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					
Test setup:	74.0								
	Peak Value								
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 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**

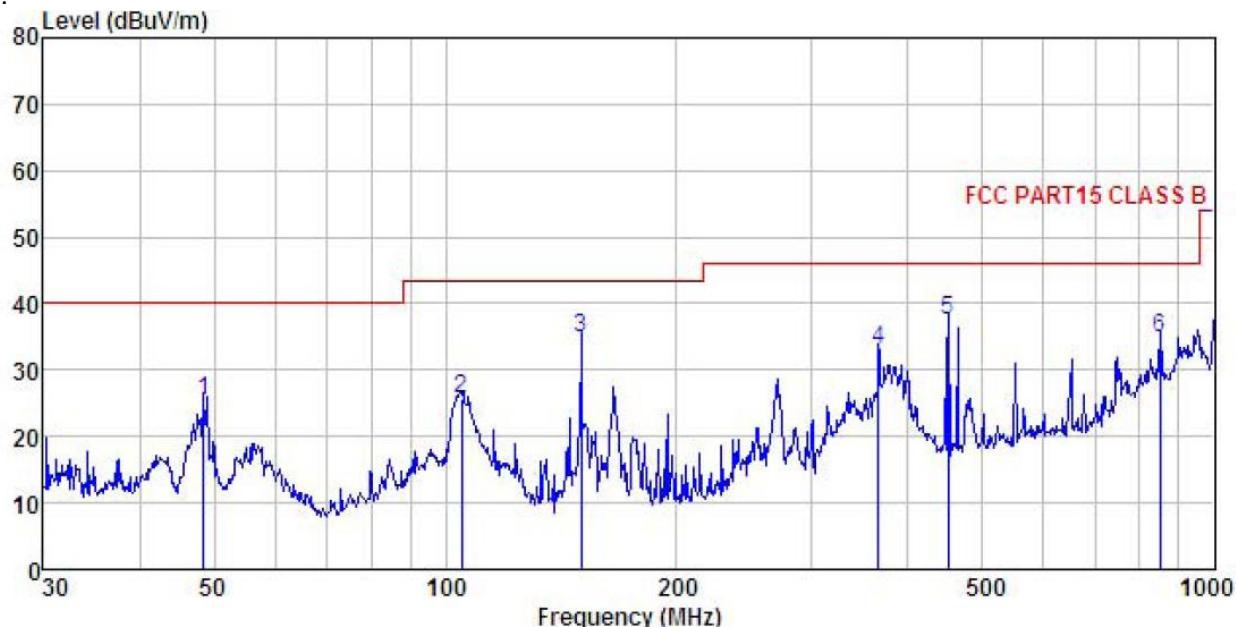
Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
Pro : 788
EUT : Mobile Phone
Model : V4
Test mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
Remark :

	Read	Antenna	Cable	Preamp	Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.332	43.25	13.35	0.59	29.83	27.36	40.00	-12.64	QP
2	106.013	42.95	12.59	1.01	29.48	27.07	43.50	-16.43	QP
3	150.011	56.23	8.26	1.32	29.22	36.59	43.50	-6.91	QP
4	239.987	49.76	12.09	1.58	28.59	34.84	46.00	-11.16	QP
5	451.135	50.27	15.58	2.26	28.87	39.24	46.00	-6.76	QP
6	721.726	43.91	19.10	2.97	28.58	37.40	46.00	-8.60	QP

Vertical:

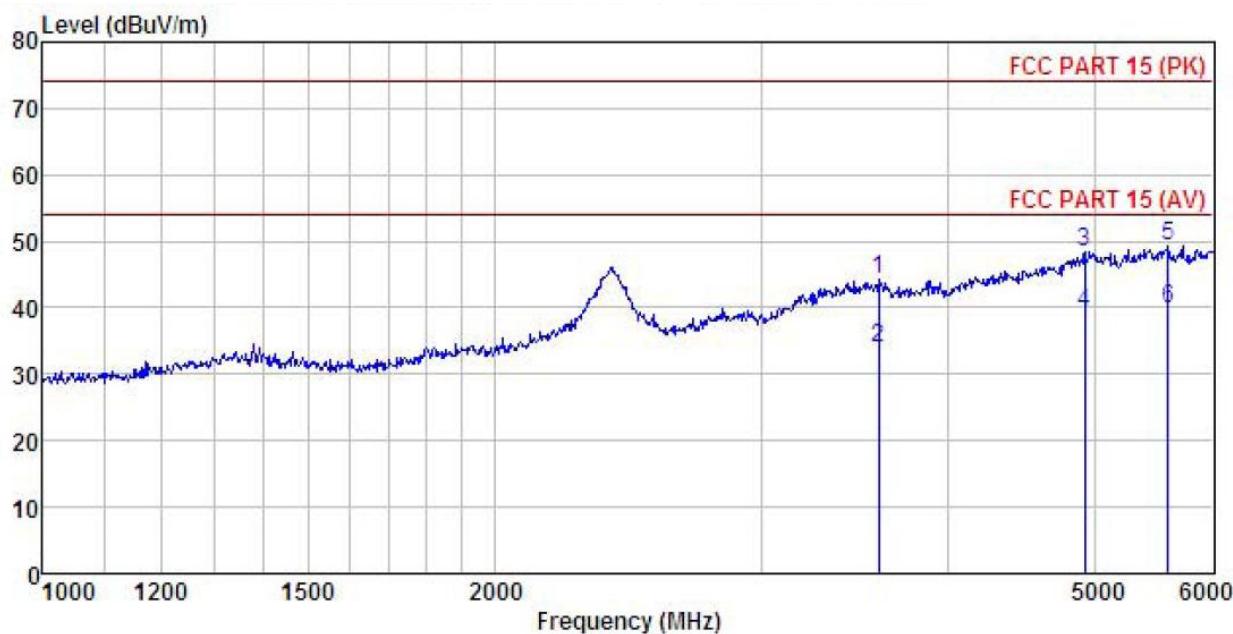


Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
Pro : 788
EUT : Mobile Phone
Model : V4
Test mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
Remark :

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Remark	
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	48.502	41.35	13.34	0.60	29.83	25.46	40.00 -14.54 QP
2	104.903	41.48	12.68	1.00	29.49	25.67	43.50 -17.83 QP
3	150.011	54.41	8.26	1.32	29.22	34.77	43.50 -8.73 QP
4	365.539	45.14	14.48	2.00	28.63	32.99	46.00 -13.01 QP
5	451.135	48.67	15.58	2.26	28.87	37.64	46.00 -8.36 QP
6	851.035	38.97	20.60	3.25	28.00	34.82	46.00 -11.18 QP

Above 1GHz

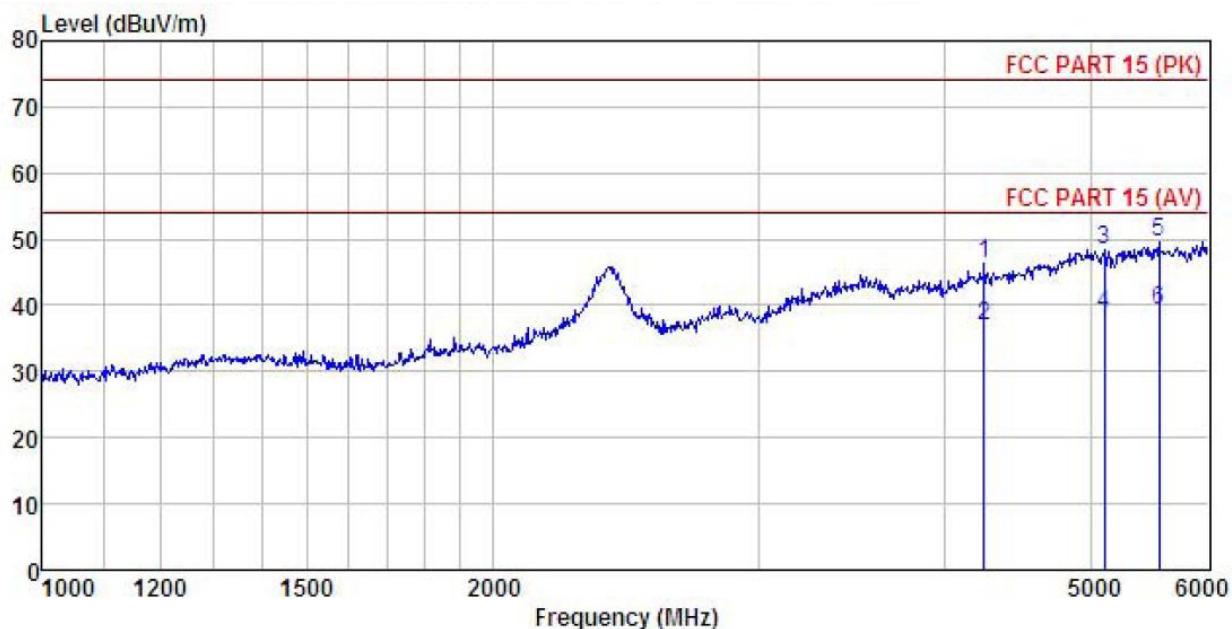
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Pro : 788
EUT : Mobile Phone
Model : V4
Test mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Carey
Remark :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	3594.181	46.57	29.16	8.95	40.33	44.35	74.00 -29.65 Peak
2	3594.181	36.23	29.16	8.95	40.33	34.01	54.00 -19.99 Average
3	4926.683	46.24	31.61	10.70	40.08	48.47	74.00 -25.53 Peak
4	4926.683	36.95	31.61	10.70	40.08	39.18	54.00 -14.82 Average
5	5595.042	46.11	32.08	11.48	40.37	49.30	74.00 -24.70 Peak
6	5595.042	36.68	32.08	11.48	40.37	39.87	54.00 -14.13 Average

Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
Pro : 788
EUT : Mobile Phone
Model : V4
Test mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Carey
Remark :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	4245.883	47.01	30.32	9.92	40.91	46.34	74.00 -27.66 Peak
2	4245.883	37.53	30.32	9.92	40.91	36.86	54.00 -17.14 Average
3	5106.433	45.57	32.11	10.91	40.05	48.54	74.00 -25.46 Peak
4	5106.433	35.68	32.11	10.91	40.05	38.65	54.00 -15.35 Average
5	5555.085	46.39	32.09	11.43	40.32	49.59	74.00 -24.41 Peak
6	5555.085	36.04	32.09	11.43	40.32	39.24	54.00 -14.76 Average