

FCC REPORT

Applicant: Verykool USA Inc

Address of Applicant: 3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: RS75

FCC ID: WA6RS75

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

Date of sample receipt: 14 Dec., 2012

Date of Test: 19 Dec., 2012 to 05 Jan., 2013

Date of report issued: 06 Jan., 2013

Test Result : Pass *

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

Authorized Signature:

A circular logo for CCIS (China Certification & Inspection Services Co., Ltd.) is visible. The logo contains the text 'CHINA CERTIFICATION & INSPECTION SERVICES CO., LTD.' around the perimeter and 'CCIS' in the center. A handwritten signature in blue ink is written over the logo.

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	06 Jan.,2013	Original

Prepared by:

Lisa chen

Report Clerk

Date:

06 Jan.,2013

Reviewed by:

Vincent chen

Project Engineer

Date:

06 Jan.,2013

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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:	Verykool USA Inc
Address of Applicant:	4350 Executive Dr. #100, San Diego
Manufacturer:	Verykool Wireless Technology Ltd.
Address of Manufacturer:	Room 1701, Reward Building C, No.203, 2nd Section of WangJing, Li Ze Zhong Yuan, ChaoYang District, Beijing, P.R. of China 100102

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	RS75
AC adapter:	Input:100-240V AC,50/60Hz 0.15A Output:5V DC MAX500mA
Power supply:	Rechargeable Li-ion Battery DC3.7V/1350mAh

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
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

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

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none">● 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.
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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

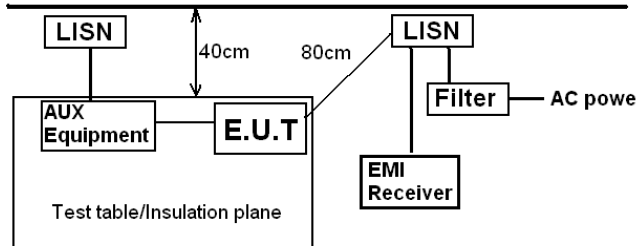
6 Test Instruments list

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 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr.01 2012	Mar. 31 2013
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 03 2013
4	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May. 29 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2012	Mar. 31 2013
7	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2012	Mar. 31 2013
8	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2012	Mar. 31 2013
9	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2012	Mar. 31 2013
10	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2012	Mar. 31 2013
11	Amplifier(10KHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2012	Mar. 31 2013
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 08 2013
13	Spectrum analyzer	Rohde & Schwarz	FSP	CCIS0023	May 29 2012	May 28 2013
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 (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 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2012	May. 24 2013
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2012	Mar. 31 2013
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2012	Mar. 31 2013

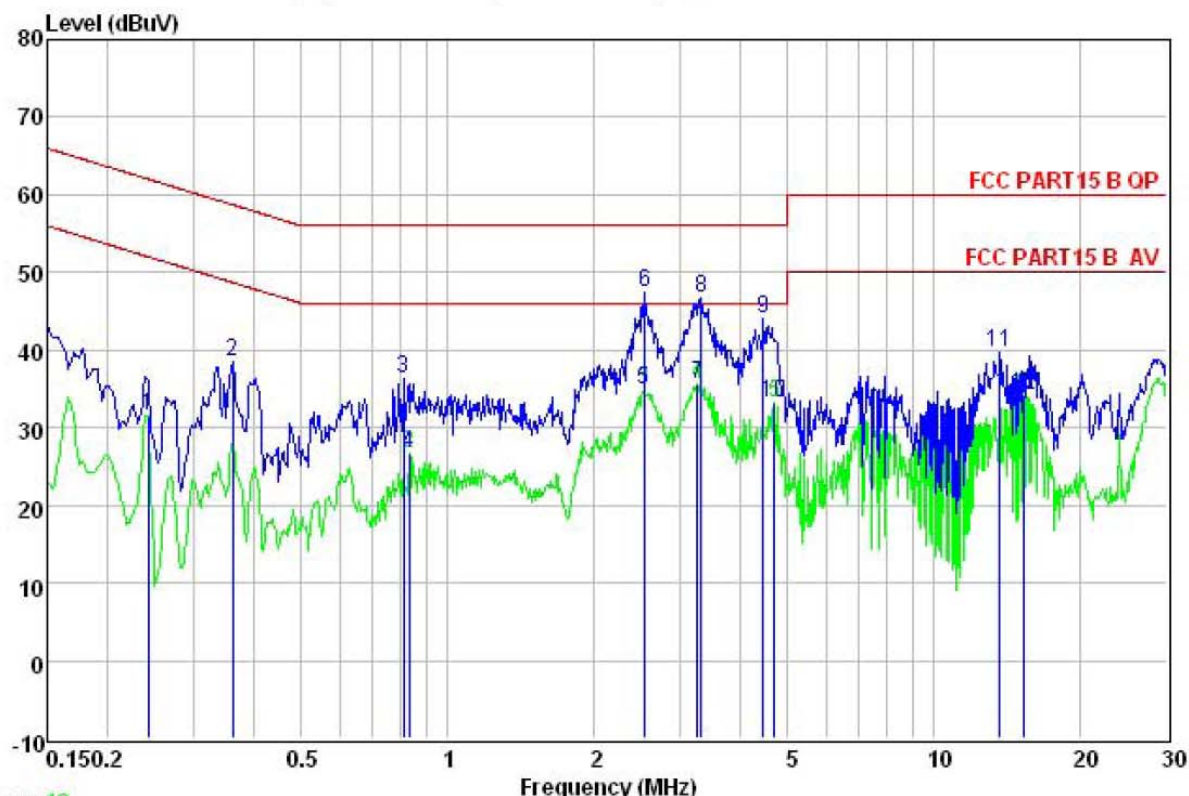
7 Test results and Measurement Data

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:	<div><p style="text-align: center;">Reference Plane</p><p style="text-align: center;">Test table/Insulation plane</p><p><i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i></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 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:

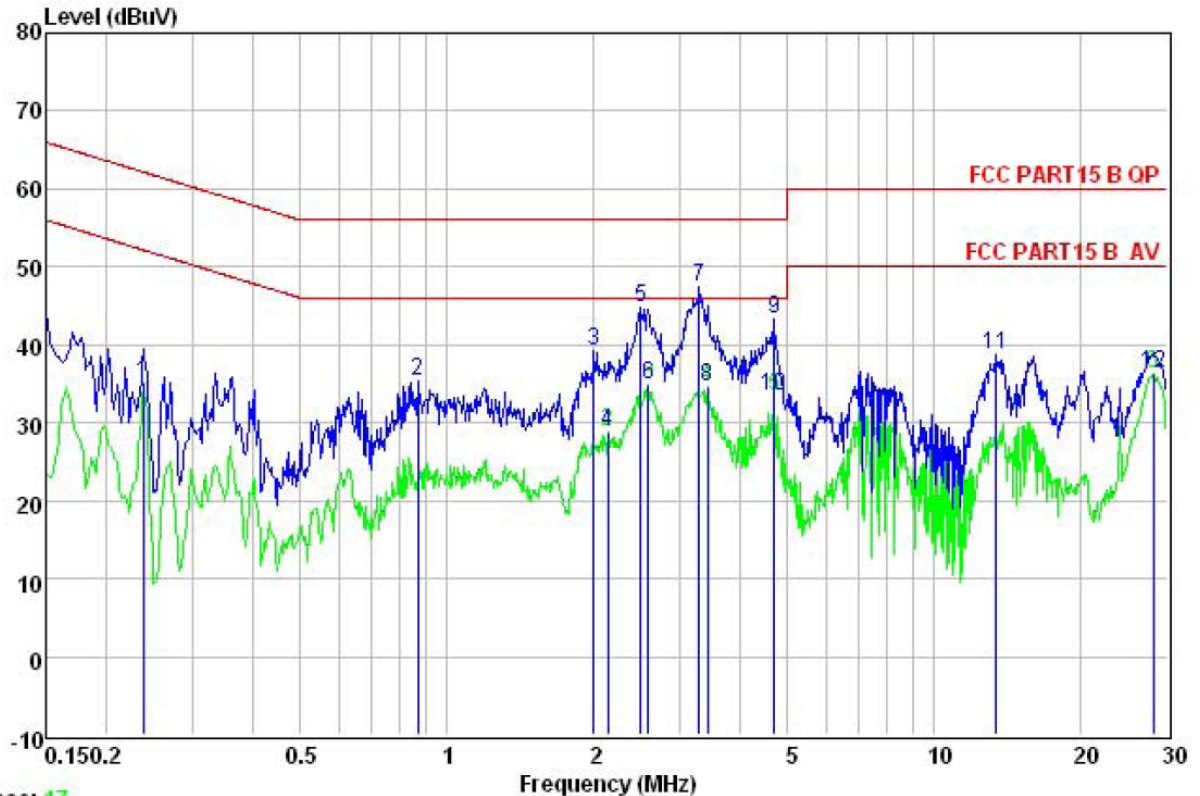


Trace: 19

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job. no : 299RF
 EUT : Mobile phone
 Model : RS75
 Test Mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Winner

	Freq	LISN	Read	Cable	Level	Limit	Over	Remark
	MHz	Factor	Level	Loss	Level	Line	Limit	
	MHz	dB	dBuV	dB	dBuV	dBuV	dB	
1	0.242	10.23	20.59	0.75	31.57	52.04	-20.47	Average
2	0.361	10.27	27.46	0.73	38.46	58.69	-20.23	QP
3	0.809	10.19	25.24	0.81	36.24	56.00	-19.76	QP
4	0.830	10.19	15.59	0.82	26.60	46.00	-19.40	Average
5	2.527	10.28	23.67	0.94	34.89	46.00	-11.11	Average
6	2.540	10.28	36.13	0.94	47.35	56.00	-8.65	QP
7	3.258	10.29	24.29	0.90	35.48	46.00	-10.52	Average
8	3.310	10.29	35.60	0.90	46.79	56.00	-9.21	QP
9	4.454	10.29	32.79	0.88	43.96	56.00	-12.04	QP
10	4.696	10.28	21.95	0.87	33.10	46.00	-12.90	Average
11	13.623	10.24	28.60	0.91	39.75	60.00	-20.25	QP
12	15.226	10.23	22.98	0.90	34.11	50.00	-15.89	Average

Neutral:



Trace: 17

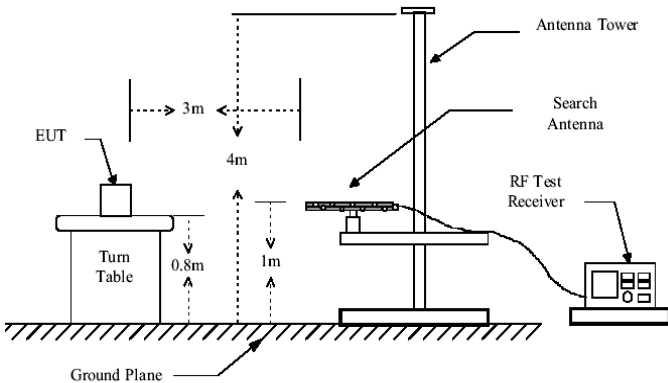
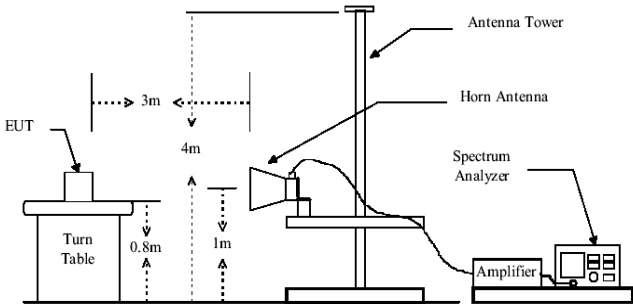
Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job. no : 299RF
 EUT : Mobile phone
 Model : RS75
 Test Mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Winner

	LISN	Read	Cable	Limit	Over	
Freq	Factor	Level	Loss	Line	Limit	Remark
MHz	dB	dBuV	dB	dBuV	dBuV	dB
1	0.238	10.23	24.07	0.75	35.05	52.17 -17.12 Average
2	0.871	10.18	24.26	0.84	35.28	56.00 -20.72 QP
3	2.001	10.27	28.08	0.96	39.31	56.00 -16.69 QP
4	2.133	10.27	17.54	0.96	28.77	46.00 -17.23 Average
5	2.500	10.27	33.52	0.94	44.73	56.00 -11.27 QP
6	2.581	10.27	23.56	0.94	34.77	46.00 -11.23 Average
7	3.293	10.28	36.20	0.90	47.38	56.00 -8.62 QP
8	3.417	10.28	23.51	0.90	34.69	46.00 -11.31 Average
9	4.696	10.27	32.09	0.87	43.23	56.00 -12.77 QP
10	4.696	10.27	22.39	0.87	33.53	46.00 -12.47 Average
11	13.408	10.23	27.61	0.91	38.75	60.00 -21.25 QP
12	28.152	10.75	24.68	0.87	36.30	50.00 -13.70 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.

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		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
	<p>Below 1GHz</p>  <p>Above 1GHz</p> 			

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 semi-anechoic chamber. 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 rotatable 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 environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa
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

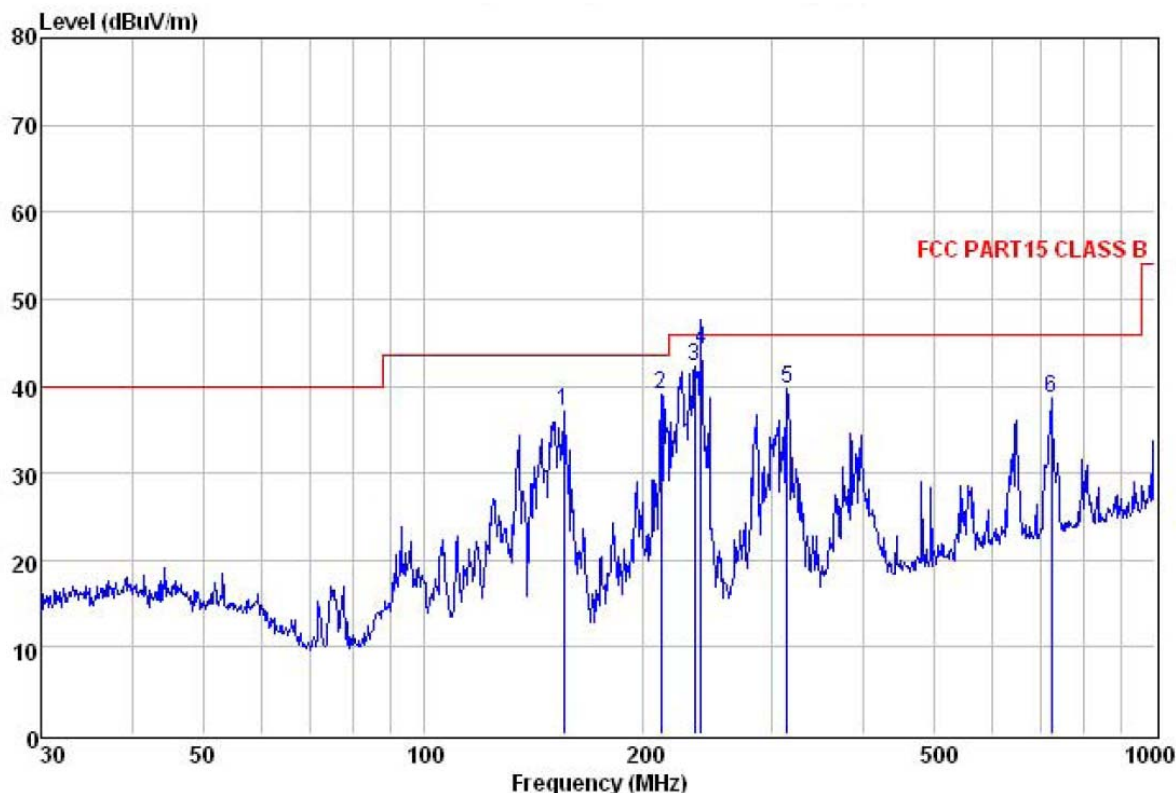
Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.

Measurement Data

Below 1GHz

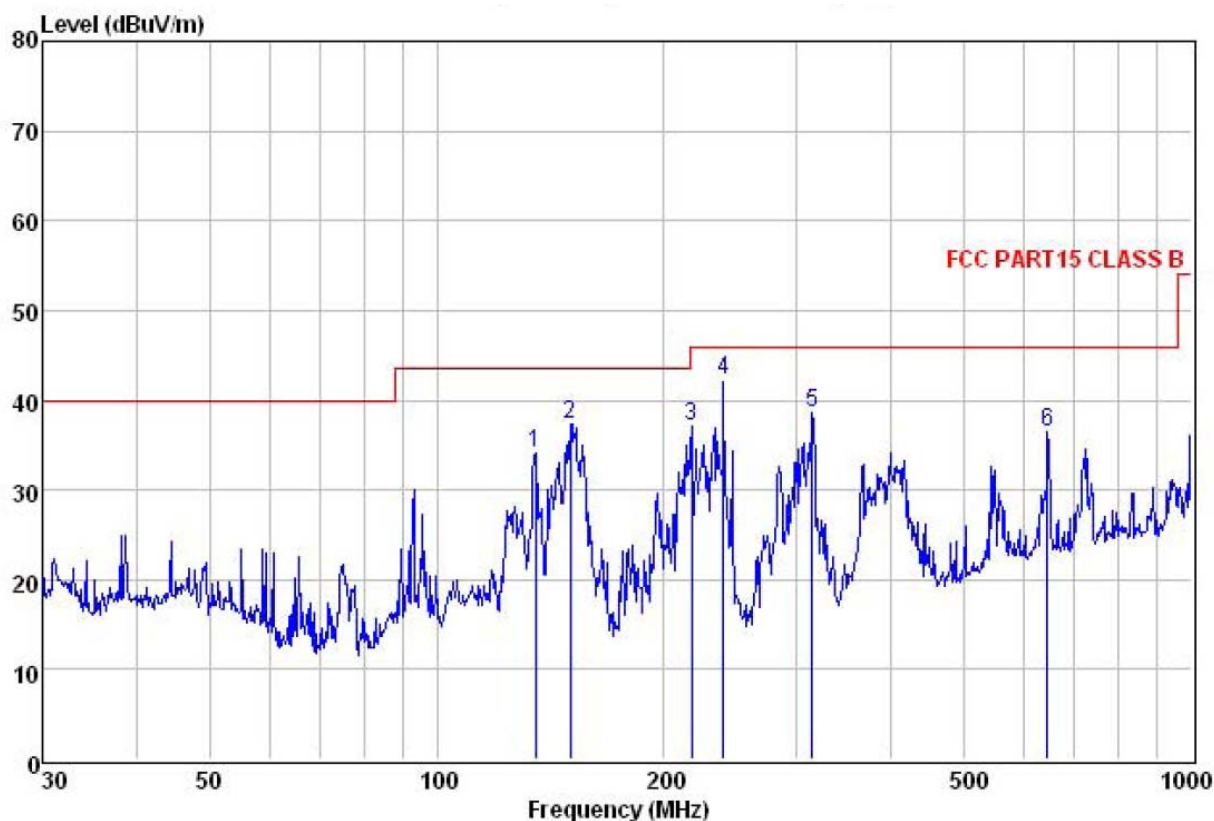
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) HORIZONTAL
 Job No. : 299RF
 EUT : Mobile Phone
 Model : RS75
 Test mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: Winner

	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	155.364	55.72	8.48	2.55	29.61	37.14	43.50	-6.36 QP
2	211.527	54.90	10.93	2.86	29.76	38.93	43.50	-4.57 QP
3	234.991	57.31	11.83	2.83	29.66	42.31	46.00	-3.69 QP
4	239.987	59.00	12.09	2.82	29.64	44.27	46.00	-1.73 QP
5	314.377	53.02	13.26	2.98	29.51	39.75	46.00	-6.25 QP
6	721.726	45.78	19.10	4.26	30.55	38.59	46.00	-7.41 QP

Vertical:

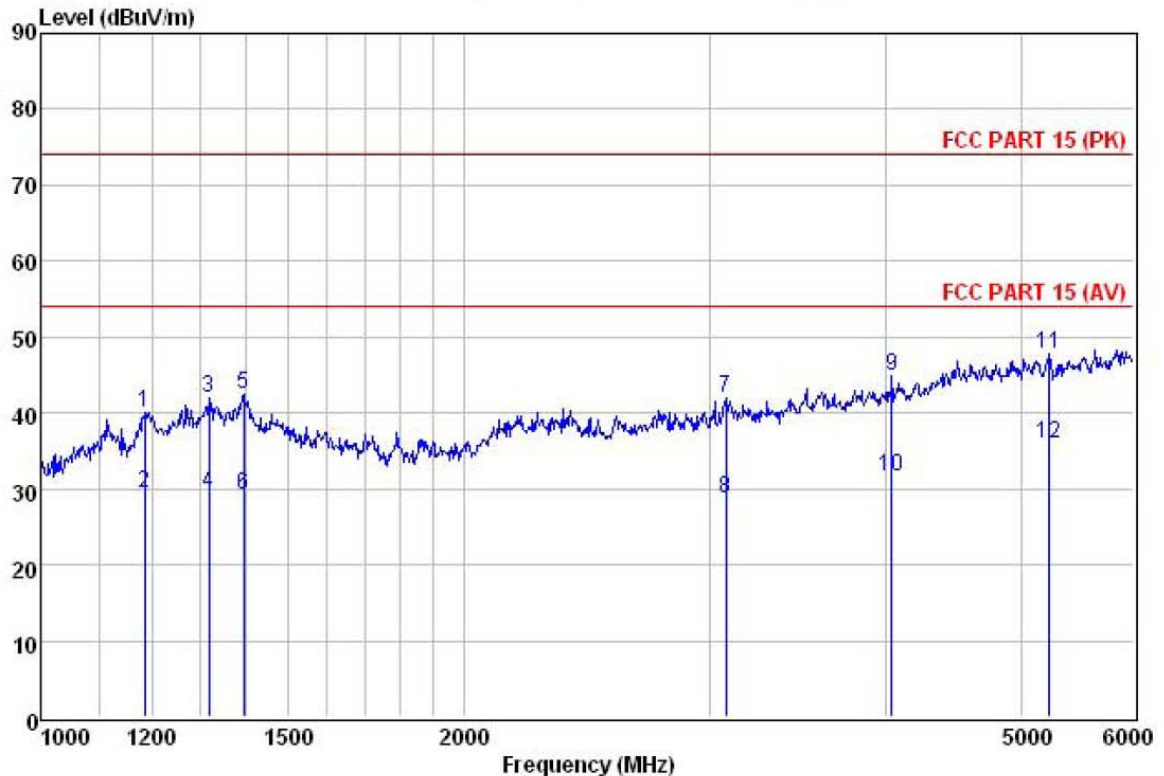


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) VERTICAL
 Job No. : 299RF
 EUT : Mobile Phone
 Model : RS75
 Test mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: Winner

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	135.032	52.74	8.56	2.34	29.45	34.19	43.50 -9.31 QP
2	150.011	55.86	8.26	2.52	29.23	37.41	43.50 -6.09 QP
3	217.544	52.83	11.10	2.85	29.73	37.05	46.00 -8.95 QP
4	239.987	56.94	12.09	2.82	29.64	42.21	46.00 -3.79 QP
5	314.377	51.81	13.26	2.98	29.51	38.54	46.00 -7.46 QP
6	645.120	44.50	18.61	3.87	30.58	36.40	46.00 -9.60 QP

Above 1GHz

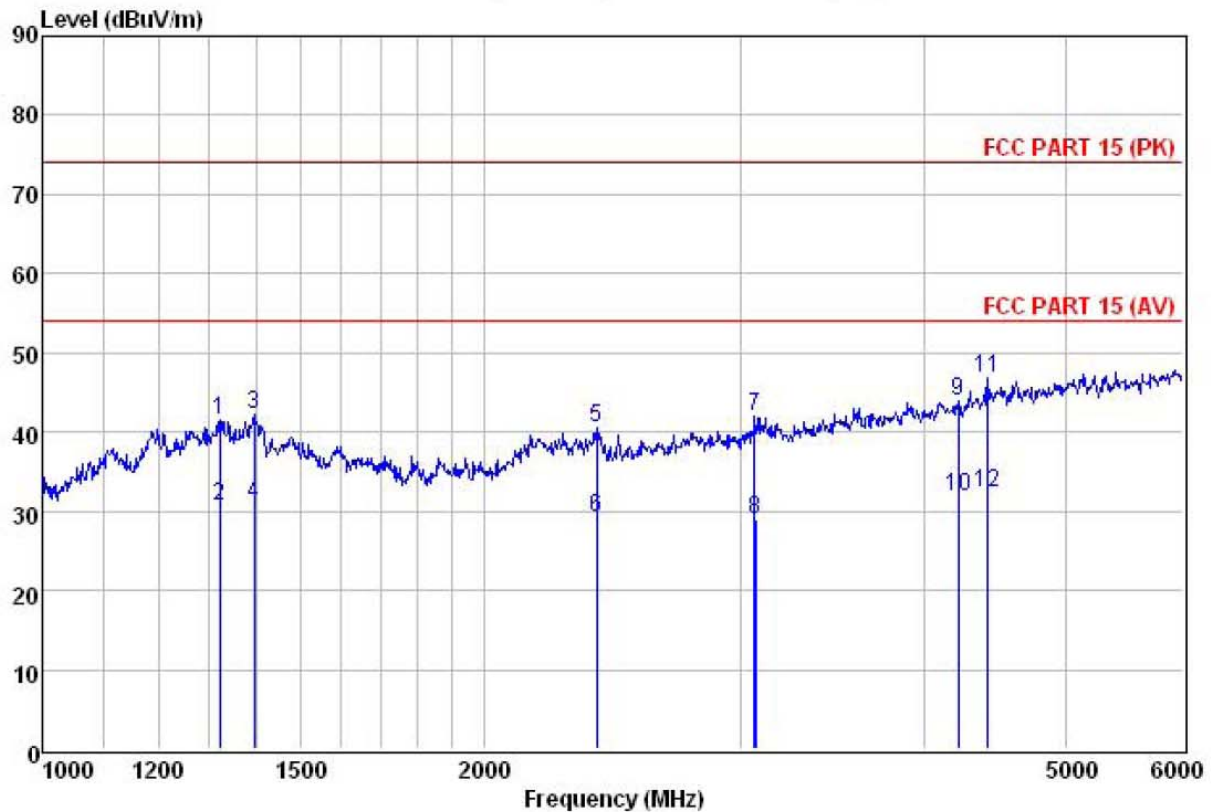
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(>1GHZ) HORIZONTAL
 Job No. : 299RF
 EUT : Mobile Phone
 Model : RS75
 Test mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: Winner

	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	1185.562	31.16	24.88	2.58	18.65	39.97	74.00 -34.03 Peak
2	1185.562	20.53	24.88	2.58	18.65	29.34	54.00 -24.66 Average
3	1317.757	34.01	25.58	2.77	20.31	42.05	74.00 -31.95 Peak
4	1317.757	21.36	25.58	2.77	20.31	29.40	54.00 -24.60 Average
5	1395.520	35.48	25.40	2.87	21.39	42.36	74.00 -31.64 Peak
6	1395.520	22.30	25.40	2.87	21.39	29.18	54.00 -24.82 Average
7	3075.395	38.56	28.68	4.44	29.68	42.00	74.00 -32.00 Peak
8	3075.395	25.31	28.68	4.44	29.68	28.75	54.00 -25.25 Average
9	4038.126	36.24	29.91	5.32	26.53	44.94	74.00 -29.06 Peak
10	4038.126	22.79	29.91	5.32	26.53	31.49	54.00 -22.51 Average
11	5226.772	33.67	31.83	6.12	23.85	47.77	74.00 -26.23 Peak
12	5226.772	21.79	31.83	6.12	23.85	35.89	54.00 -18.11 Average

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(>1GHZ) VERTICAL
 Job No. : 299RF
 EUT : Mobile Phone
 Model : RS75
 Test mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Humi:55% Atmos:101Kpa
 Test Engineer: Winner

	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	1322.488	33.48	25.65	2.77	20.31	41.59	74.00	-32.41	Peak
2	1322.488	22.47	25.65	2.77	20.31	30.58	54.00	-23.42	Average
3	1395.520	35.38	25.40	2.87	21.39	42.26	74.00	-31.74	Peak
4	1395.520	23.89	25.40	2.87	21.39	30.77	54.00	-23.23	Average
5	2388.809	39.37	27.58	3.81	30.10	40.66	74.00	-33.34	Peak
6	2388.809	27.81	27.58	3.81	30.10	29.10	54.00	-24.90	Average
7	3064.394	38.55	28.67	4.44	29.74	41.92	74.00	-32.08	Peak
8	3064.394	25.65	28.67	4.44	29.74	29.02	54.00	-24.98	Average
9	4215.562	33.89	30.24	5.47	25.81	43.79	74.00	-30.21	Peak
10	4215.562	22.01	30.24	5.47	25.81	31.91	54.00	-22.09	Average
11	4416.593	35.37	30.57	5.60	24.77	46.77	74.00	-27.23	Peak
12	4416.593	20.98	30.57	5.60	24.77	32.38	54.00	-21.62	Average