

TEST REPORT

То:	SHENZHEN YUXINXIN ELECTRONICS CO., LTD
Address:	Building7, XinXing Industrial Park, FuYong Town Bao'An District, ShenZhen City, GuangDong, China

SHENZHEN YUXINXIN ELECTRONICS CO., LTD	
Building7, XinXing Industrial Park, FuYong Town Bao'An District, ShenZhen City, GuangDong, China	
Wireless Headphone(TX)	
YUXINXIN	
FM8898(EW208)-TX	Т 2 3 4 5 6 7 8 9 10 H 12 Ю н 15 16 П 18 19 20 21 22 23 24 25 26 27 28 29
Jan. 04 ~ Jan. 10, 2012	
	ELECTRONICS CO., LTD Building7, XinXing Industrial Park, FuYong Town Bao'An District, ShenZhen City, GuangDong, China Wireless Headphone(TX) YUXINXIN FM8898(EW208)-TX

the tests have been carried out according to the requirements of the following standards:

FCC Part 15, Subpart C (Section 15.249)

CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement

Prepared by Glyn He Project Engineer / EMC Department	Approved by Sam Tung Manager / EMC Department	
Alyn	Data: Jan 40, 2012	
	Date: Jan.10, 2012	
This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our		

prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China



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	EUT	BY THE LAB

Report Version 1



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	N/A	Jan. 10, 2012



Test Report No.: FC111230N021 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
§15.203	Antenna Requirement	PASS	Compliant
§15.207 (a)	Conducted Emission	PASS	Compliant
§15.205	Restricted Band of Operation	PASS	Compliant
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant
§15.215(c)	20dB Bandwidth Test	PASS	Compliant

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44dB
	30MHz ~ 200MHz	3.19dB
Radiated emissions	200MHz ~1000MHz	3.21dB
Nadiated emissions	1GHz ~ 18GHz	2.26dB
	18GHz ~ 40GHz	1.94dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Headphone(TX)
MODEL NO.	FM8898(EW208)-TX,
ADDITIONAL MODEL & MODEL DIFFERENCE:	FM8898H(EW209)-TX, YU-2.4G-01(TX), YU-RF1009(TX), YU-FM8899(TX), YU-FM1082(TX), YU-FM1083(TX), YU-FM1101(TX), YU-RF1102(TX), YU-RF8138(TX), YU-YX2011(TX), YU-RF8139(TX), YU-RF8149(TX), YU-RF868(TX), YU-FM2010(TX), YU-FM2011(TX), YU-RF8138(TX), YU-RF8168(TX), YU-RF8169(TX), YU-RF2108(TX), YU-RF2168(TX), YU-RF2358(TX), YU-RF2688(TX), YU-RF2698(TX) Only differences are the trade name and model NO. for trading purpose.
FCC ID	ZRH2012010602A
NOMINAL VOLTAGE	DC 4.5V By Adapter
MODULATION TYPE	FM
OPERATING FREQUENCY	915.5MHz, 916.0MHz, 916.5MHz
ANTENNA TYPE	Integral Antenna
I/O PORTS	Mic. output Port, DC input Port
DATA CABLE SUPPLIED	Audio input line: Unshielded, Undetachable 1.0m Audio line: Unshielded, Detachable 0.6m

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. The EUT was powered by the following adapters:

ADAPTER		
BRAND:	N/A	
MODEL:	SJ-35-045200D	
INPUT:	AC 120V/60Hz	
OUTPUT:	DC 4.5V 200MA	
DC LINE:	UNSHIELDED, UNDETACHABLE 1.8M	
UL FILE NO.:	E234022	

Report Version 1



3.2 DESCRIPTION OF TEST MODES

MODE	CHANNEL	FREQUENCY
Transmitting	Middle	916.0MHz

For the test modes, the EUT had been tested with all conditions. But only the worst case was showed in test report.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.249) ANSI C63.4-2009

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone 4	APPLE	A1332	81124KCJA4S	N/A
2	Headphone	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

NOTE:



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100199	May 25,11	May 25,12
Test software	ADT_Cond_V7.3.7	N/A	N/A	N/A
Artificial Mains Network ROHDE & SCHWARZ	ENV216	101173	May 25,11	May 25,12
RF Cable FUJIKURA	3D-2W	844 Cable	May 02,11	May 02,12
ISN TESEQ	ISN T800	27957	Oct 16,11	Oct 16,12

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA

2. The test was performed in Dongguan Shielded Room 553.



4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

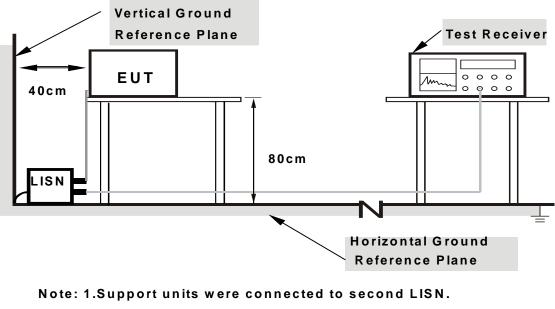
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



4.1.5 TEST SETUP



2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. Playing the music from iPhone.
- c. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



4.1.7 TEST RESULTS

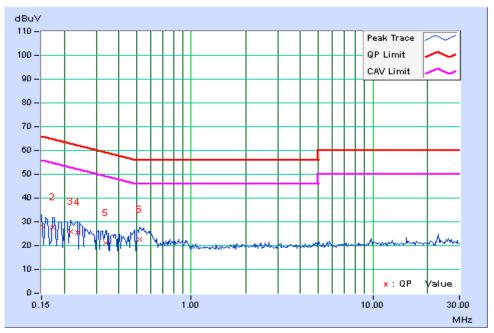
CONDUCTED WORST-CASE DATA

INPUT POWER	AC 120V/60Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 45% RH, 1008 hPa	PHASE	Line
TESTED BY	Glyn		

No				g Value (uV)]	Emissic [dB (on Level (uV)]		nit (uV)]		rgin B)
		[lilli2] (dB)		AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.1500	9.88	18.82	-1.34	28.70	8.54	66.00	56.00	-37.30	-47.46
2	0.17344	9.90	18.06	-1.98	27.96	7.92	64.79	54.79	-36.83	-46.87
3	0.21641	9.93	16.10	-4.84	26.03	5.09	62.96	52.96	-36.92	-47.86
4	0.23594	9.94	15.78	-6.16	25.72	3.78	62.24	52.24	-36.52	-48.46
5	0.3375	9.96	11.00	-8.12	20.96	1.84	59.26	49.26	-38.30	-47.42
6	0.52109	10.00	12.50	-8.30	22.50	1.70	56.00	46.00	-33.50	-44.30

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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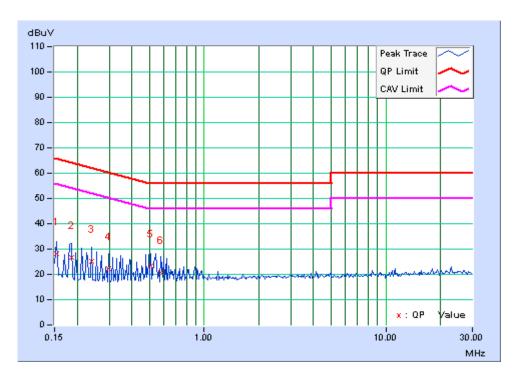


INPUT POWER	AC 120V/60Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 46% RH, 1008 hPa	PHASE	Neutral
TESTED BY	Glyn		

No	Freq. [MHz]	Corr. Factor			<u> </u>		-			
		(ub)	Q.P. AV.		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.87	18.20	-3.78	28.07	6.09	65.79	55.79	-37.71	-49.69
2	0.18516	9.91	16.92	-5.66	26.83	4.25	64.25	54.25	-37.43	-50.01
3	0.23984	9.93	15.40	-7.72	25.33	2.21	62.10	52.10	-36.77	-49.89
4	0.29844	9.95	12.34	-8.44	22.29	1.51	60.29	50.29	-38.00	-48.78
5	0.50938	10.00	13.22	-7.45	23.22	2.55	56.00	46.00	-32.78	-43.45
6	0.57969	10.00	10.81	-7.24	20.81	2.76	56.00	46.00	-35.19	-43.24

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and
- measurement with the average detector is unnecessary. 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China Tel: +86 769 8593 5656 Fax: +86 769 8593 1080 Email: <u>DGservice@cn.bureauveritas.com</u>



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY46180622	Apr. 25, 11	Apr. 25, 12
Spectrum Analyzer Agilent	E7405A	MY45118807	May 25,11	May 25,12
Test Receiver ROHDE & SCHWARZ	ESVD	847398/003	May 25,11	May 25,12
Test software	ADT_Radiated_V7. 6.15	N/A	N/A	N/A
Bilog Antenna TESEQ	CBL 6111D	27089	Jul 24,11	Jul 24,12
Horn Antenna EMCO	3117	00062558	Nov.07,11	Nov.07,12
10m Semi-anechoic Chamber ETS-LINDGREN	21.4m*12.1m*8.8m	NSEMC006	May 02,11	May 02,12
RF Cable IMRO	IMRO-400	10m Cable 1#10m	May 02,11	May 02,12
RF Cable IMRO	IMRO-400	10m Cable 2#3m	May 02,11	May 02,12
Signal Amplifier EMCI	EMC330	980095	Nov 07,11	Nov 07,12
Signal Amplifier EMCI	EMC0140045	980102	Nov 07,11	Nov 07,12
Spectrum Analyzer HP	8593E	3448U00806	May 25,11	May 25,12
RF Cable DRAKA	M06/25-RG102	10m Cable 2#	May 02,11	May 02,12

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.

2. The test was performed in Dongguan Chamber 10m.

3. The horn antenna are used only for the measurement of emission frequency above 1GHz if tested.



4.2.3 TEST PROCEDURES

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 10GHz, The measuring antenna moved from 1 to 4 m for horizontal not vertical polarizations antenna moved from 1 to 4 m for horizontal and vertical antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was use das a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 kHz and 300kHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was1MHz and 1MHz for Peak detection at frequency above 1GHz.

For Average measurement at frequency above 1GHz. The resolution bandwidth of the test receiver was 1MHz ; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than 1/T, so the video bandwidth is 10Hz.

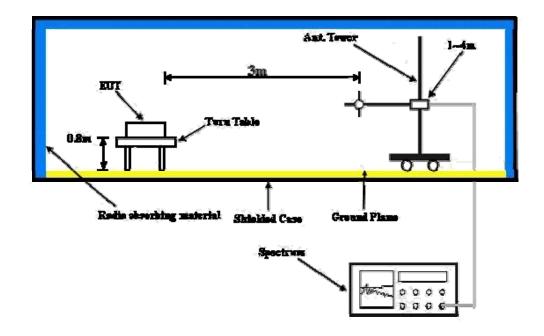
In 18GHz to 25GHz, The EUT was checked by Horn ANT. But the test Emissions attenuated more than 20 dB below the permissible value.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation



4.2.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

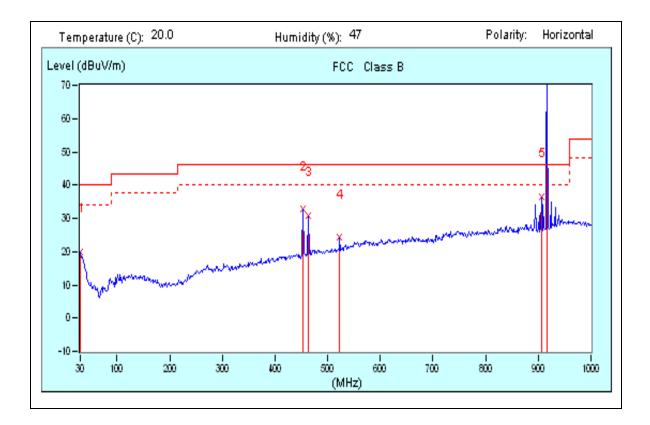
4.2.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. Playing the music from iPhone.
- c. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



4.2.7 TEST RESULTS

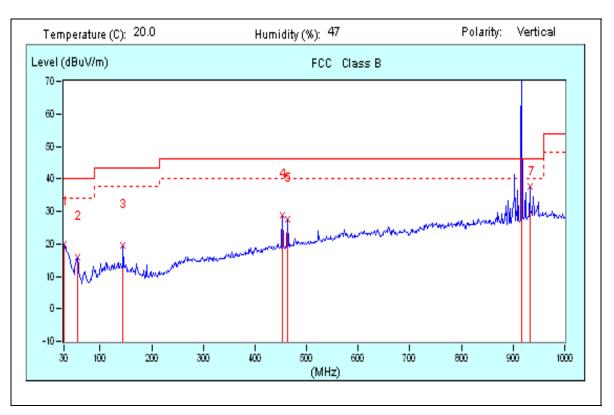
BELOW 1GHz WORST-CASE DATA: Middle channel



	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M												
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)					
1	30.00	19.93	0.04	19.97	40.00	-20.03	322	301					
2	453.57	19.16	13.47	32.63	46.00	-13.37	360	247					
3	463.27	19.48	11.44	30.92	46.00	-15.08	346	134					
4	523.08	20.58	3.64	24.22	46.00	-21.78	375	266					
5	902.23	26.45	10.10	36.55	46.00	-9.45	216	100					
6	916.00	26.83	63.26	90.09	94.00	-3.91	400	149					

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	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M											
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)				
1	30.00	19.93	0.04	19.97	40.00	-20.03	150	44				
2	55.87	9.06	6.78	15.84	40.00	-24.16	150	63				
3	144.78	12.58	6.87	19.45	43.50	-24.05	150	22				
4	453.57	19.16	9.43	28.59	46.00	-17.41	100	11				
5	463.27	19.48	7.98	27.46	46.00	-18.54	100	112				
6	916.00*	26.83	61.12	87.95	94.00	-6.05	100	219				
7	928.00	26.89	11.59	38.48	46.00	-7.52	100	241				

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 - 3. The other emission levels were very low against the limit.
 - 4. Margin value = Emission level Limit value.
 - 5. "* ": Fundamental frequency.



Frequency		Raw Value	Direction	Polar	Correction	Emission	Limit	Margin
MHz	Detector	dBuV	Degree	H/V	factor	level	dBuV/m	dB
					dB/m	dBuV/m		
1832.00	AV	20.34	145	V	30.31	50.65	54	-3.35
1832.00	AV	15.15	64	Н	30.31	45.46	54	-8.54
1832.00	PK	27.21	145	V	30.31	57.52	74	-16.48
1832.00	PK	26.95	64	Н	30.31	57.26	74	-16.74
2748.00	AV	8.45	25	V	36.94	45.39	54	-8.61
2748.00	AV	3.41	90	Н	36.94	40.35	54	-13.65
2748.00	PK	21.54	25	V	36.94	58.48	74	-15.52
2748.00	PK	15.25	90	Н	36.94	52.19	74	-21.81

ABOVE 1GHz WORST-CASE DATA: Middle channel

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit (dBuV/m).



4.3 20dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY46180622	Apr. 25, 11	Apr. 25, 12
Horn Antenna EMCO	3117	00062558	Nov.07,11	Nov.07,12
10m Semi-anechoic Chamber ETS-LINDGREN	21.4m*12.1m*8.8m	NSEMC006	May 02,11	May 02,12
RF Cable IMRO	IMRO-400	10m Cable 2#3m	May 02,11	May 02,12
Signal Amplifier EMCI	EMC0140045	980102	Nov 07,11	Nov 07,12
RF Cable DRAKA	M06/25-RG102	10m Cable 2#	May 02,11	May 02,12
Test software	ADT_Radiated_V7. 6.15	N/A	N/A	N/A

- **NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA
 - 2. The test was performed in Dongguan Chamber 10m.



Test Report No.: FC111230N021 4.3.3 TEST PROCEDURE

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations.

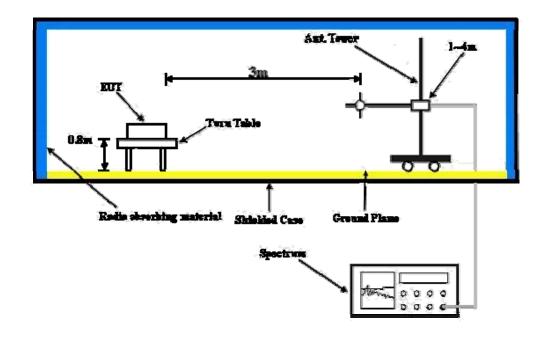
The spectrum analyzer was receiving the maximum emission level. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.



4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

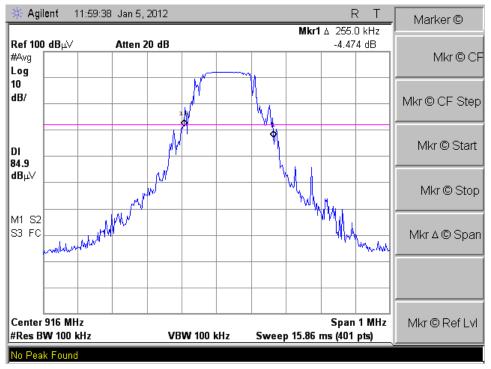
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 TEST RESULTS

CHANNEL FREQUENCY	20dB BANDWIDTH	
(MHz)	(KHz)	
916.0	255	

Test Data:



Report Version 1



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

----END----