FCC Part 15

TEST REPORT

For

Bluetooth Stereo Headset

Model Name: ST-88

Trade Name: we.com

FCC ID: XELST-88

Report No.: AGC10270905SZ03-1E6

Date of Issue: May.27, 2009

Prepared For

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Report No.:AGC10270905SZ03-1E6 Page 1 of 42

VERIFICATION OF COMPLIANCE

Applicant:	Shenzhen Hongnanke Communication Equipment Co., Ltd.
Manufacturer	No.16, the Second Industry Park, Xiakeng, Tongle, Longgang District, Shenzhen, Guangdong, China
Product Description:	Bluetooth Stereo Headset
Brand Name:	we.com
Model Number:	ST-88
FCC ID	XELST-88
Report Number:	AGC10270905SZ03-1E6
Date of Test:	May.25, 2009-May.27, 2009

WE HEREBY CERTIFY THAT:

The above equipment was tested by Shenzhen Attestation of Global Compliance Science & Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Checked By:

Tony Tian May.27, 2009

Authorized By

King Zhang

May.27, 2009

TABLE OF CONTENTS

1.GEN	NERAL INFORMATION	4
1.1	PRODUCT DESCRIPTION	
1.2	RELATED SUBMITTAL(S) / GRANT (S)	
1.3	TEST METHODOLOGY	4
1.4	TEST FACILITY	
1.5	SPECIAL ACCESSORIES	
1.6	EQUIPMENT MODIFICATIONS	
2. SYS	STEM TEST CONFIGURATION	5
2.1	CONFIGURATION OF TESTED SYSTEM	5
2.2	EQUIPMENT USED IN TESTED SYSTEM	5
3. SU	MMARY OF TEST RESULTS	6
4. DE	SCRIPTION OF TEST MODES	6
5. CO	NDUCTION EMISSIONS	7
5.1	MEASUREMENT PROCEDURE:	7
5.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	7
5.3	MEASUREMENT EQUIPMENT USED:	7
5.4	LIMITS AND MEASUREMENT RESULT:	8
5.5	TEST RESULT OF LINE CONDUCTED EMISSION TEST	8
6. MA	XIMUM OUTPUT POWER	10
6.1 I	MEASUREMENT PROCEDURE:	10
6.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	10
6.3	MEASUREMENT EQUIPMENT USED:	13
6.4 l	LIMITS AND MEASUREMENT RESULT:	14
7. 20 [DB BANDWIDTH	16
7.1 I	MEASUREMENT PROCEDURE	16
7.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	16
7.3	MEASUREMENT EQUIPMENT USED:	16
7.4 l	LIMITS AND MEASUREMENT RESULTS:	16
8. MA	XIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	18
8.1 I	MEASUREMENT PROCEDURE:	18
	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
	MEASUREMENT EQUIPMENT USED:	
8.4 l	LIMITS AND MEASUREMENT RESULT:	18
9. OU	T OF BAND EMISSION	21

Page 3 of 42	Page	3	of	42
--------------	------	---	----	----

9.1 MEASUREMENT PROCEDURE:	21
9.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	21
9.3 MEASUREMENT EQUIPMENT USED:	21
9.4 LIMITS AND MEASUREMENT RESULT:	21
10. NUMBER OF HOPPING FREQUENCY	30
10.1 MEASUREMENT PROCEDURE	30
10.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	30
10.3 MEASUREMENT EQUIPMENT USED	30
10.4 LIMITS AND MEASUREMENT RESULT:	30
11.TIME OF OCCUPANCY (DWELL TIME)	31
11.1 MEASUREMENT PROCEDURE	
11.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
11.3 MEASUREMENT EQUIPMENT USED	
11.4 LIMITS AND MEASUREMENT RESULT	31
12.FREQUENCY SEPARATION	34
12.1 MEASUREMENT PROCEDURE	34
12.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
12.3 MEASUREMENT EQUIPMENT USED	
12.4 LIMITS AND MEASUREMENT RESULT	34
APPENDIX I	35
PHOTOGRAPHS OF THE EUT	35
PPENDIX II	41
PHOTOGRAPHS OF THE TEST SETUP	41

Page 4 of 42

1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

The EUT is a short range, lower power; **Bluetooth Stereo Headset (Class 2)** designed as an "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following:

Operation Frequency	2.402 GHz to 2.480GHz
Rated Output Power	-7.87 dBm
Modulation	GFSK
Number of channels	79
Antenna Designation	Dedicated Antenna
Power Supply	DC 3.7V Power by Battery

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: XELST-88 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

1.3 TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 TEST FACILITY

All measurement facilities used to collect the measurement data are located at World Standardization Certification & Testing Co., Ltd. 1-2/F, Dachong Keji Building, No.28 of Tonggu Road, Nanshan District, Shenzhen, China

FCC Registration Number: 989301

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

1.5 SPECIAL ACCESSORIES

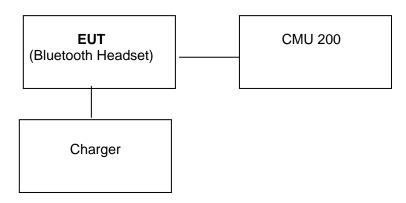
Not available for this EUT intended for grant.

1.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

2.1 CONFIGURATION OF TESTED SYSTEM



2.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID
1	Bluetooth Headset	We.com	ST-88	XELST-88
2	СМИ	R&S	CMU200	
3	Charger			

3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.207	Conduction Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Maximum Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Band Edges	Compliant
§15.247	Spurious Emission	Compliant
§15.247	Frequency Separation	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Peak Power Density	Compliant

4. DESCRIPTION OF TEST MODES

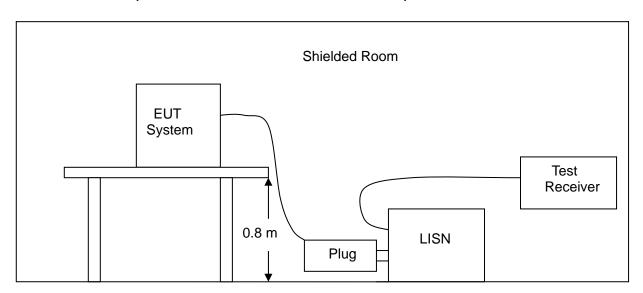
- 1. The EUT has been set to operate continuously on the lowest, the middle and the highest operation frequency individually.
- 2. The EUT stays in continuous transmitting mode on the operation frequency being set.
- 3. The EUT also be tested under charging Mode.

5. CONDUCTION EMISSIONS

5.1 MEASUREMENT PROCEDURE:

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4.
- 2. Support equipment, if needed, was placed as per ANSI C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4. The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



5.3 MEASUREMENT EQUIPMENT USED:

CONDUCTED EMISSION TEST SITE								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
EMI TEST RECEIVER	HP	8546A/8546 0A	3625A00349 3448A00325	2008/10	2009/10			
LISN	AFJ	LS16	16010222119	2009/04	2010/04			

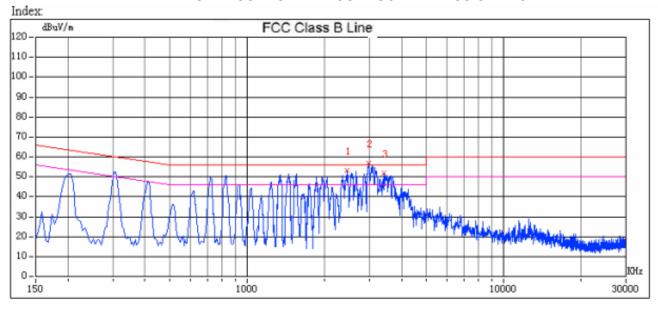
5.4 LIMITS AND MEASUREMENT RESULT:

LIMITS OF LINE CONDUCTED EMISSION TEST

Fraguency	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

^{1**}Note: 1. The lower limit shall apply at the transition frequency.

TEST RESULT OF LINE CONDUCTED EMISSION TEST

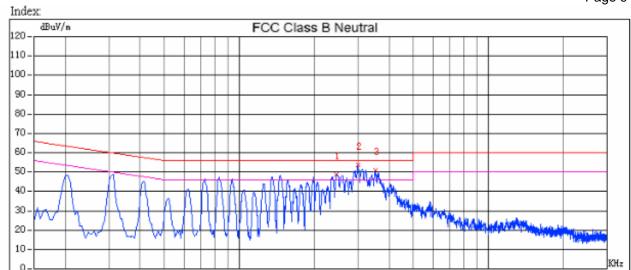


	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	2456.6200	53.25	47.82	32.47	56.00	46.00	-8.18	1.31
2	2973.9250	57.01	50.93	34.46	56.00	46.00	-5.07	1.35
3	3438.4450	51.72	43.38	19.81	56.00	46.00	-12.62	1.36

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

30000

10000



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	2459.2650	48.84	46.34	33.98	56.00	46.00	-9.66	1.27
2	2992.7850	53.51	48.39	37.10	56.00	46.00	-7.61	1.38
3	3502.0800	50.87	45.33	33.69	56.00	46.00	-10.67	1.33

1000

0-|-

6. MAXIMUM OUTPUT POWER

6.1 MEASUREMENT PROCEDURE:

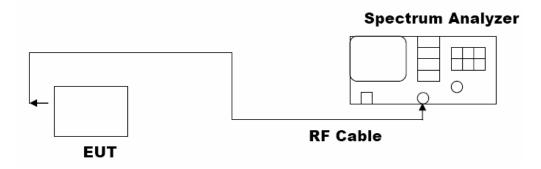
CONDUCTED METHOD

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Set SPA Centre Frequency = Operation Frequency, RBW= 1 MHz, VBW= 1 MHz.
- 5. Set SPA Trace 1 Max hold, then View.

RADIATED METHOD According to ANSI C63.4:2003

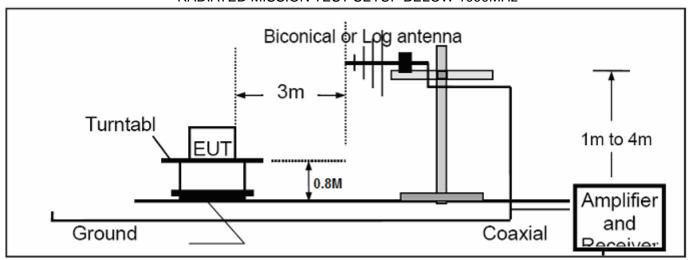
6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

CONDUCTED METHOD

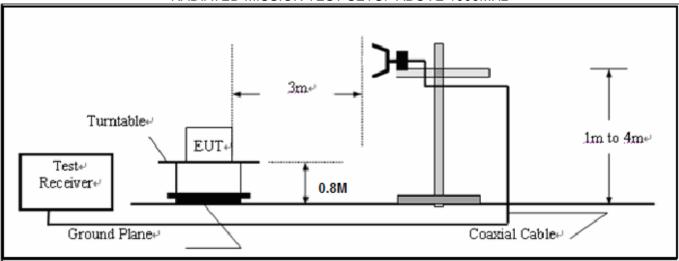


RADIATED EMISSION TEST SETUP

RADIATED MISSION TEST SETUP BELOW 1000MHz

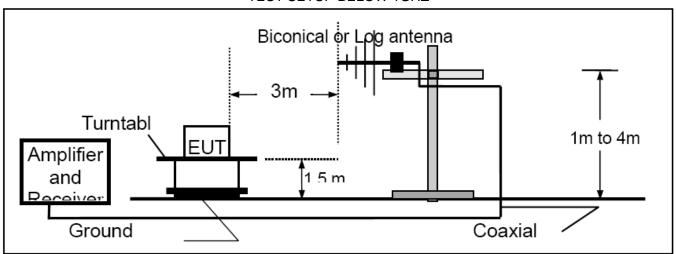


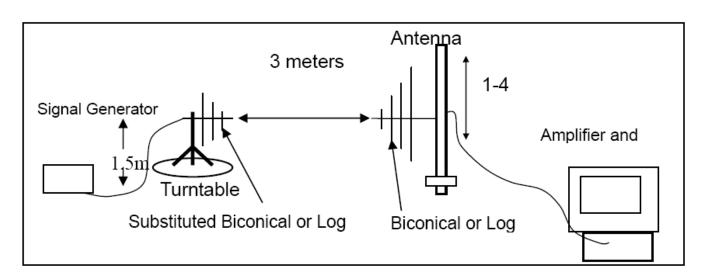
RADIATED MISSION TEST SETUP ABOVE 1000MHz



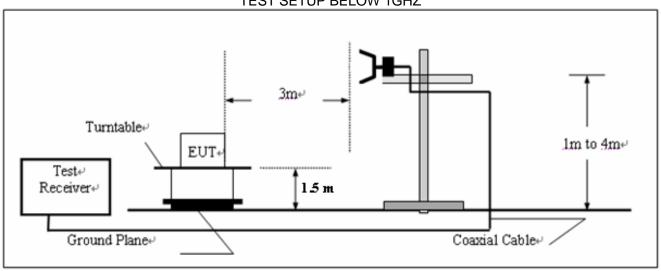
EIRP TEST SETUP

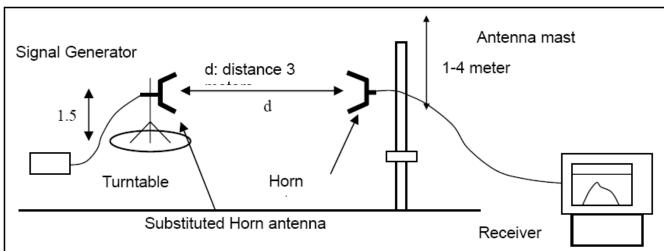
TEST SETUP BELOW 1GHZ





TEST SETUP BELOW 1GHZ





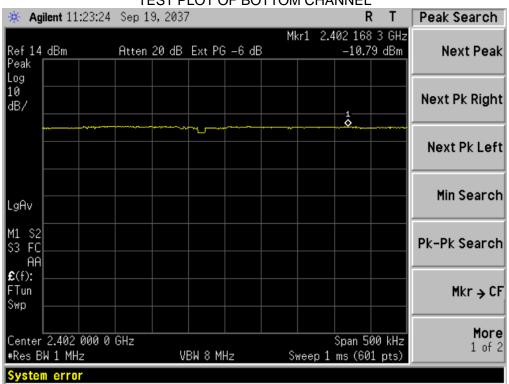
6.3 MEASUREMENT EQUIPMENT USED:

3M ANECHOIC CHAMBER RADIATION TEST SITE									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
EMI Test Receiver	R&S	ESCS30	100343	04/16/2009	04/15/2010				
AMPLIFIER	HP	HP8447E	2945A02715	04/16/2009	04/15/2010				
ANTENNA	Sunol Sciences Corp.	JB3	A021907	04/16/2009	04/15/2010				
ANTENNA	Sunol Sciences Corp.	JB3	A021907	04/16/2009	04/15/2010				
Spectrum Analyzer	Agilent	E4440A	US41421290	04/16/2009	04/15/2010				

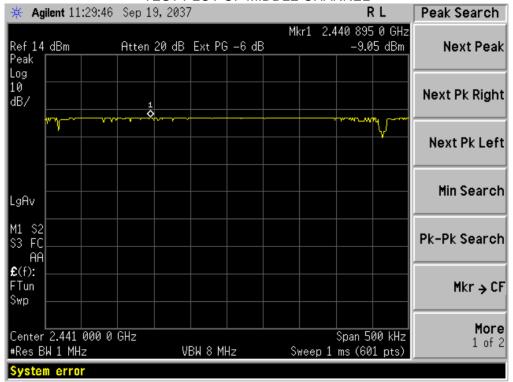
6.4 LIMITS AND MEASUREMENT RESULT:

	LIMITS AND MEASUREMENT RESULT							
Applicable	Eroguenov		Measurement Res	sult				
Limits	Frequency	EIRP (dBm)	Conducted (dBm)	Criteria				
30 dBm	2.402GHz	-8.27	-10.79	PASS				
30 dBm	2.441GHz	-7.87	-9.05	PASS				
30 dBm	2.480GHz	-8.03	-10.04	PASS				

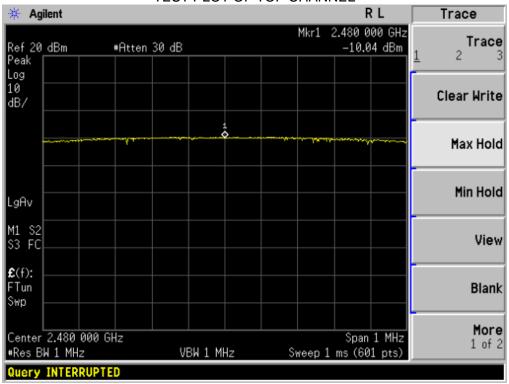
TEST PLOT OF BOTTOM CHANNEL



TEST PLOT OF MIDDLE CHANNEL



TEST PLOT OF TOP CHANNEL



7. 20 DB BANDWIDTH

7.1 MEASUREMENT PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW= 100 KHz.
- 4. Set SPA Trace 1 Max hold, then View.

7.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The Same as described in Section 6.2

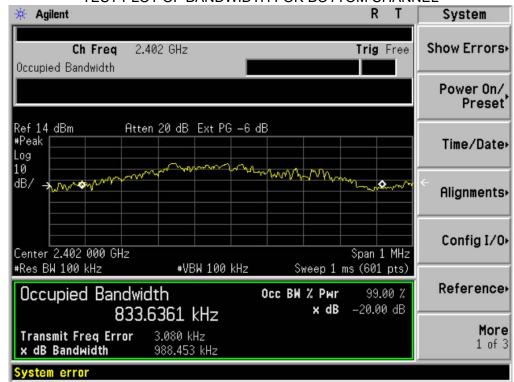
7.3 MEASUREMENT EQUIPMENT USED:

The same as described in Section 6.3

7.4 LIMITS AND MEASUREMENT RESULTS:

LIMITS AND MEASUREMENT RESULT						
Applicable Limite		Measurement Result				
Applicable Limits	Test Da	Criteria				
	Bottom Channel	0.988	PASS			
	Middle Channel	0.977	PASS			
	Top Channel	0.935	PASS			

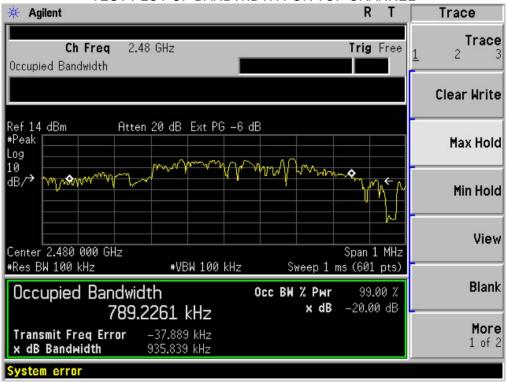




TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR TOP CHANNEL

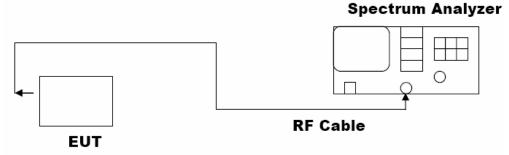


8. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

8.1 MEASUREMENT PROCEDURE:

- (1). The EUT was placed on a turn table which is 0.8m above ground plane.
- (2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (3), Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (4). Set SPA Centre Frequency = Operation Frequency, RBW= 3 KHz, VBW= 10 KHz., Sweep time= Auto
- (5). Set SPA Trace 1 Max hold, then View.

8.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



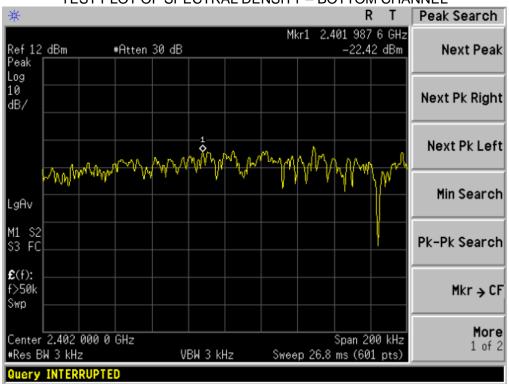
8.3 MEASUREMENT EQUIPMENT USED:

	SHIE	LDING ROO	М		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4440A	US41421290	04/16/2009	04/15/2010

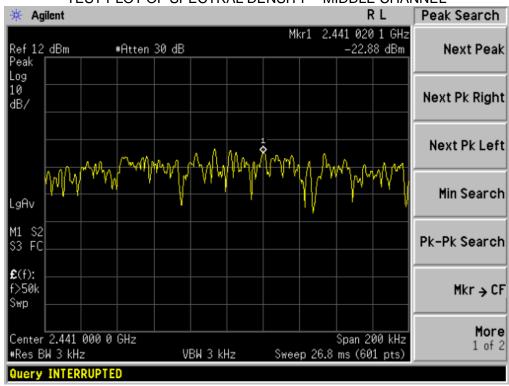
8.4 LIMITS AND MEASUREMENT RESULT:

LIMITS AND MEASUREMENT RESULT						
Applicable Limite		Measurement Result				
Applicable Limits	Test Data (di	Criteria				
	Bottom Channel	-22.42	PASS			
8 dBm / 3KHz	Middle Channel	-22.88	PASS			
	Top Channel	-23.82	PASS			

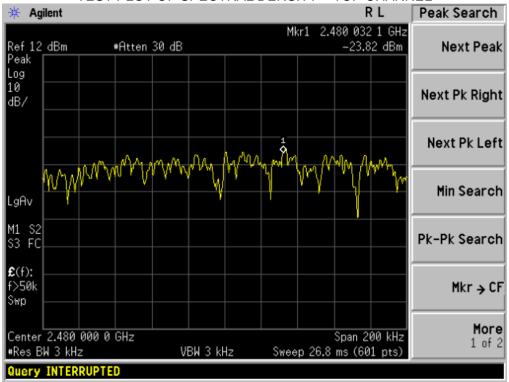
TEST PLOT OF SPECTRAL DENSITY - BOTTOM CHANNEL



TEST PLOT OF SPECTRAL DENSITY - MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY - TOP CHANNEL



Report No.:AGC10270905SZ03-1E6

Page 21 of 42

9. OUT OF BAND EMISSION

9.1 MEASUREMENT PROCEDURE:

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW= 100 KHz.
- 4. Set SPA Trace 1 Max hold, then View.

9.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The Same as described in section 6.2

- 1. Conducted test setup
- 2. Radiated Emission test Setup below 1Ghz and Above 1GHz

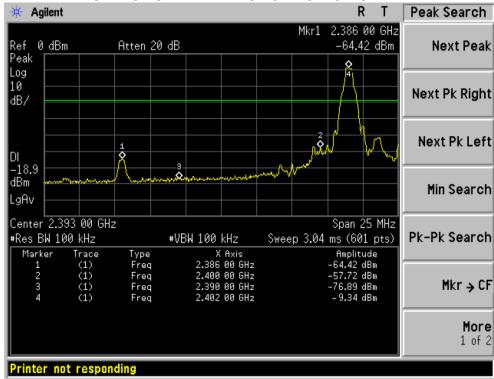
9.3 MEASUREMENT EQUIPMENT USED:

The Same as described in section 6.3

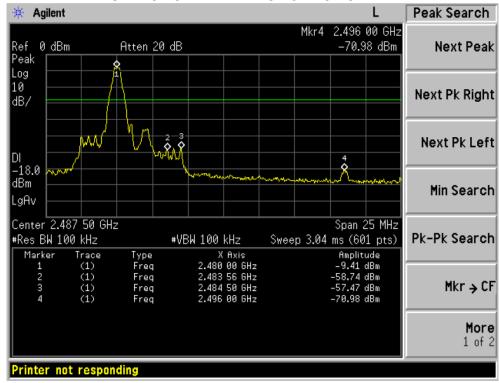
9.4 LIMITS AND MEASUREMENT RESULT:

LIMITS AND MEASUREMENT RESULT						
Applicable Limite	Measurement R	esult				
Applicable Limits	Test Data	Criteria				
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS				
level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS				

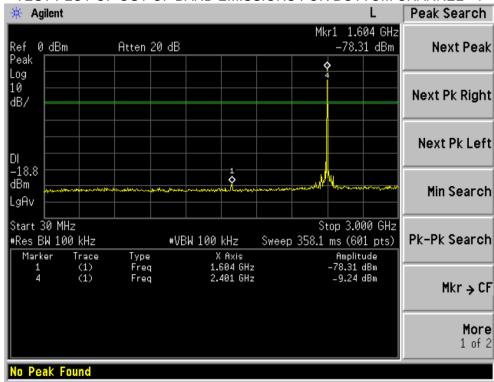




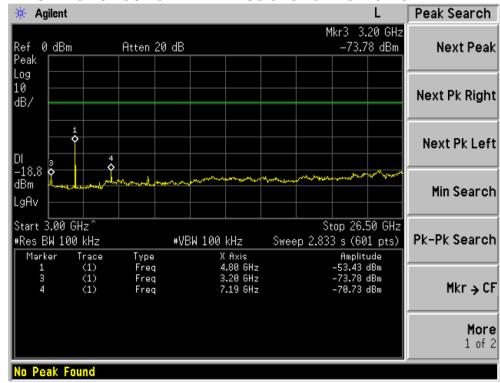
TEST PLOT OF BAND ELDG FOR TOP CHANNEL



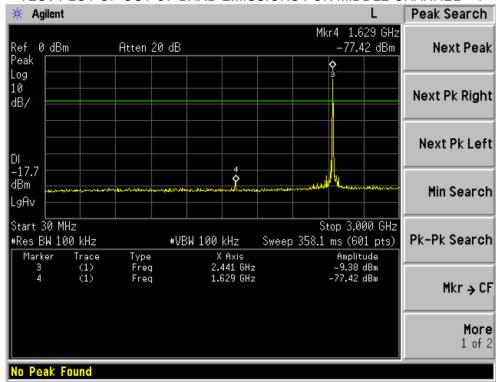
TEST PLOT OF OUT OF BAND EMISSIONS FOR BOTTOM CHANNEL - 1



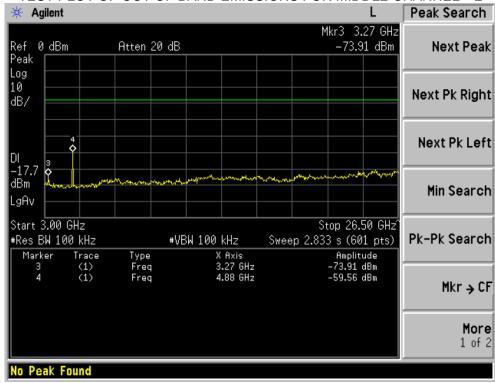
TEST PLOT OF OUT OF BAND EMISSIONS FOR BOTTOM CHANNEL - 2



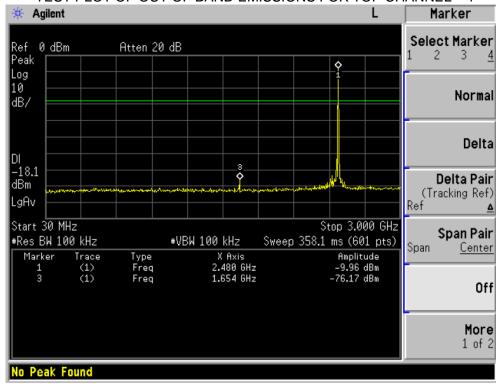
TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL - 1



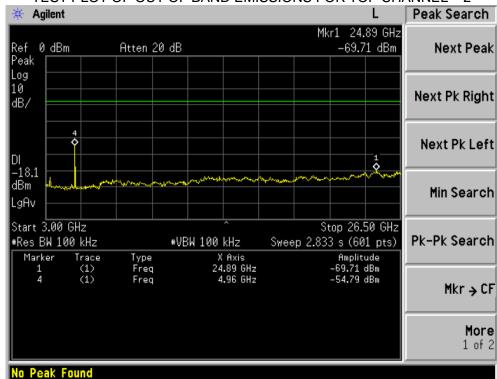
TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL - 2



TEST PLOT OF OUT OF BAND EMISSIONS FOR TOP CHANNEL - 1

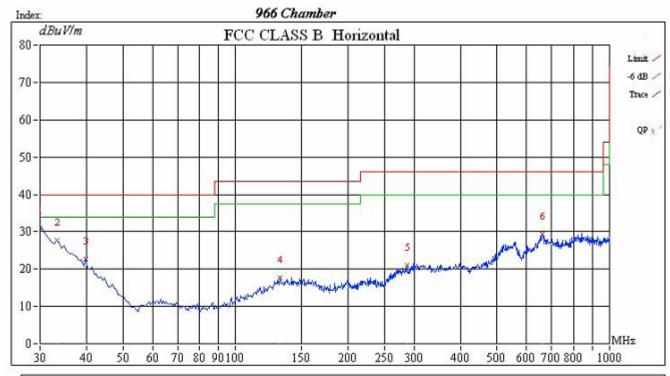


TEST PLOT OF OUT OF BAND EMISSIONS FOR TOP CHANNEL - 2

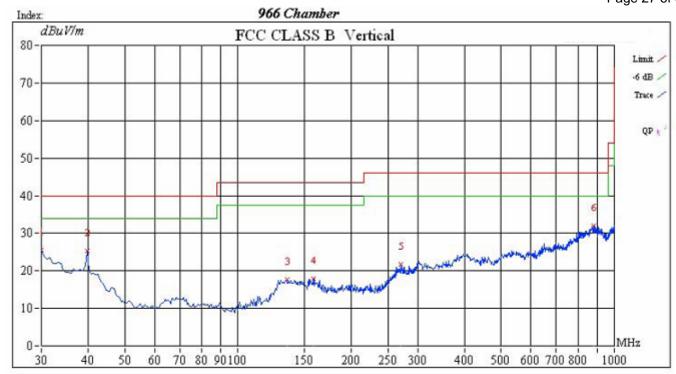


Page 26 of 42

RADIATED EMISSION BELOW 1GHZ



	Freq(MHz)	Pk(dBuV/m)	QP(dBuV/m) Pk Margin(dB)	QP Margin(dB)	Limit(dBuV/m)	Read(dBuV)	C.F(dB)	Height	Deg	Remark
1	30.0000	30.95	-9.05		40.00	23.27	7.68	100	0	
2	33.2465	27.77	-12.23		40.00	23.60	4.17	100	0	
3	39.7395	22.79	-17.21		40.00	24.44	-1.65	100	0	
4	131.1824	17.78	-25.72		43.50	23.72	-5.94	100	0	
5	287.0140	20.93	-25.07		46.00	23.78	-2.85	100	0	
6	660.5210	29.46	-16.54		46.00	23.67	5.79	100	0	



	Freq(MHz)	Pk(dBuV/m)	QP(dBuV/m) Pk Margin(dB)	QP Margin(dB) Limit(dBuV/m	Read(dBuV)	C.F(dB)	Height	Deg	Remark
1	30.0000	25.45	-14.55	40.0	23.98	1.47	100	0	
2	39.7395	25.30	-14.70	40.0	27.09	-1.79	100	0	
3	134.9699	17.62	-25.88	43.50	23.11	-5.49	100	0	
4	158.2365	17.79	-25.71	43.50	23.50	-5.71	100	0	
5	270.7816	21.70	-24.30	46.0	23.87	-2.17	100	0	
6	880.7615	32.06	-13.94	46.0	24.55	7.51	100	0	

	Band Edge Emission for Bottom Channel									
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo				
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	IVIEITIO				
2.386	Н	54.11	40.19	74	54	*				
2.400	Н	54.19	47.14	74	54	*				
2.386	V	45.19	39.88	74	54	*				
2.400	V	52.28	45.17	74	54	*				

	D 151 5 : : / T 01 1								
	Band Edge Emission for Top Channel								
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo			
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	IVIEITIO			
2.483	Н	52.51	46.63	74	54	*			
2.484	Н	52.89	47.05	74	54	*			
2.496	Н	45.11	39.87	74	54	*			
2.483	V	50.33	44.67	74	54	*			
2.484	V	50.58	45.02	74	54	*			
2.496	V	44.19	37.29	74	54	*			

						- 3			
	Restricted Band Emission for Bottom Channel								
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo			
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	Memo			
4.81	Н	59.22	47.18	74	54	*			
4.81	V	55.11	43.29	74	54	*			
Above	Н			74	54	*			
4.81 GHz	V			74	54	*			

	Restricted Band Emission for Middle Channel								
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo			
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	Memo			
4.88	Н	58.83	46.33	74	54	*			
4.88	V	54.22	42.19	74	54	*			
Above	Н			74	54	*			
4.88 GHz	V			74	54	*			

	Restricted Band Emission for Top Channel								
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo			
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	Memo			
4.95	Н	59.22	46.52	74	54	*			
4.95	V	52.58	41.33	74	54	*			
Above	Н			74	54	*			
4.95GHz	V			74	54	*			

Note: "--" Indicated the test value is much lower to limit.

Report No.:AGC10270905SZ03-1E6 Page 30 of 42

10. NUMBER OF HOPPING FREQUENCY

10.1 MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz, Sweep = Auto
- 4. Set the Spectrum Analyzer as RBW = VBW = 1MHz

10.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

1. Conducted Method.

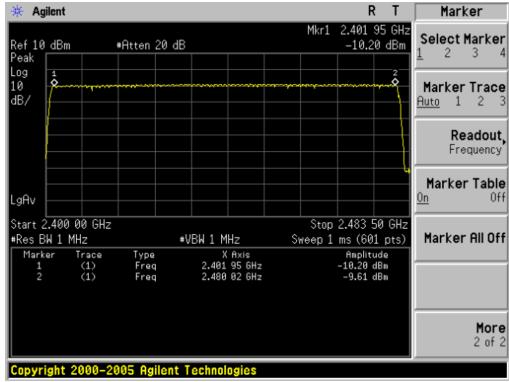
10.3 MEASUREMENT EQUIPMENT USED

The Same as described in section 6.3

10.4 LIMITS AND MEASUREMENT RESULT:

TOTAL NO. OF HOPPING CHANNEL	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
	>=15	79	PASS





Report No.:AGC10270905SZ03-1E6 Page 31 of 42

11. TIME OF OCCUPANCY (DWELL TIME)

11.1 MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set center frequency of spectrum analyzer = Operating frequency
- 4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0 Hz,

11.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2 Conducted Method

11.3 MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

11.4 LIMITS AND MEASUREMENT RESULT

The dwell time = Time Slot Length * Hop Rate / Number of Hopping Channels * 0.4 * 79 Support DH 1 packet Only

I-CH

DH1 Time Slot = 0.365 (ms) * (1600/(2*79))*31.6 = 116.8 (ms)

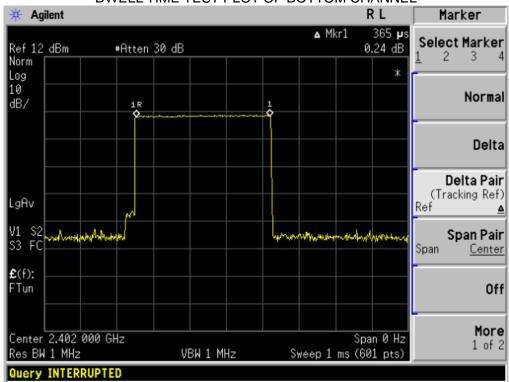
M-CH:

DH1 Time Slot = 0.367 (ms) * (1600/(2*79))*31.6 = 117.8 (ms)

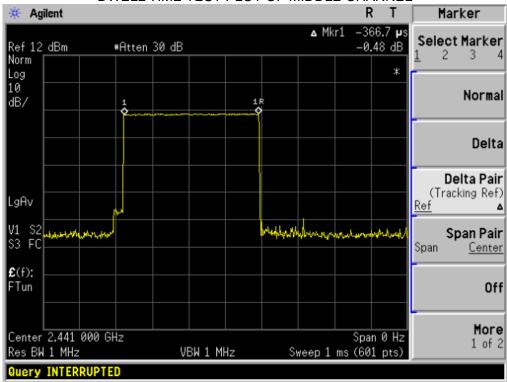
H-CH:

DH1 Time Slot = 0.371 (ms) * (1600/(2*79))*31.6 = 118.7 (ms)

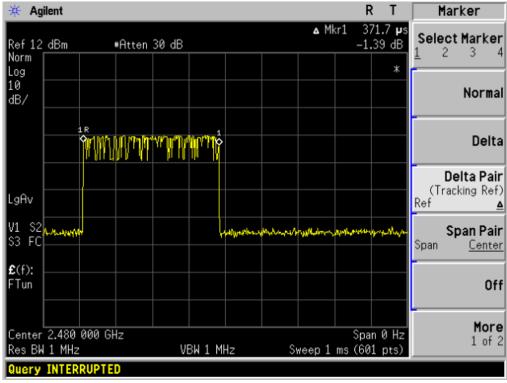
DWELL TIME TEST PLOT OF BOTTOM CHANNEL



DWELL TIME TEST PLOT OF MIDDLE CHANNEL



DWELL TIME TEST PLOT OF TOP CHANNEL



Report No.:AGC10270905SZ03-1E6

Page 34 of 42

12. FREQUENCY SEPARATION 12.1 MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set center frequency of spectrum analyzer = Middele of Operating frequency
- 4. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 5 MHz,

12.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

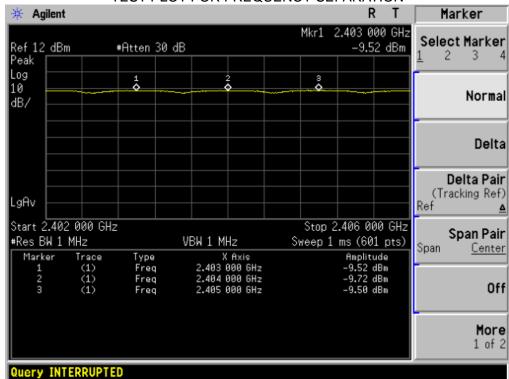
12.3 MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

12.4 LIMITS AND MEASUREMENT RESULT

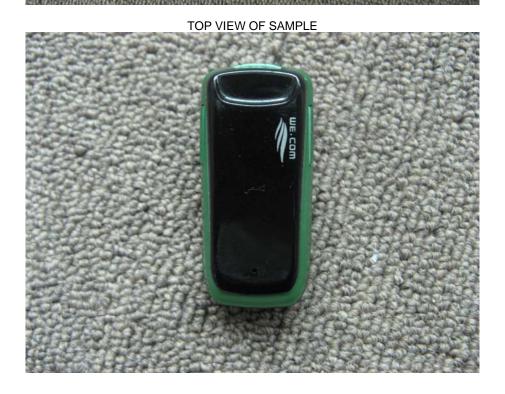
CHANNEL SEPARATION	LIMIT	RESULT
KHz	KHz	
1000	>=25 KHz or 2/3 20 dB BW	- Pass





APPENDIX I PHOTOGRAPHS OF THE EUT All VIEW OF SAMPLE

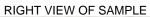






LEFT VIEW OF SAMPLE

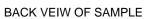




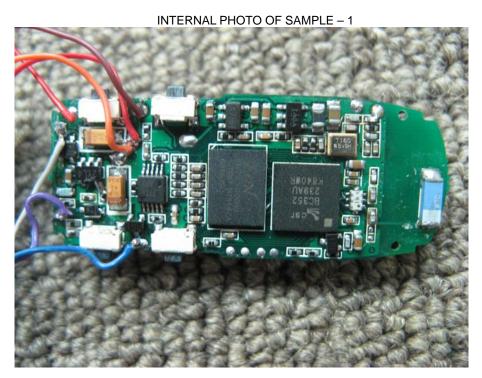


FRONT VIEW OF SAMPLE

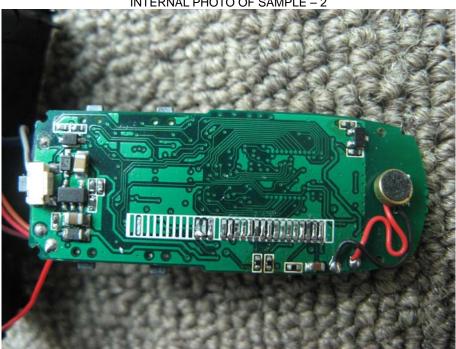




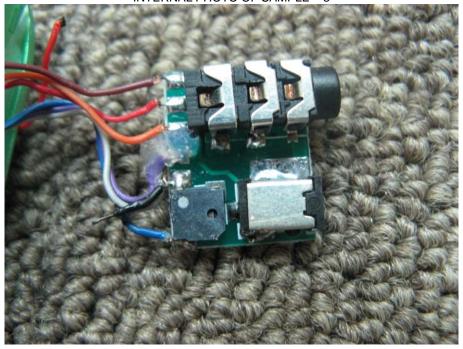


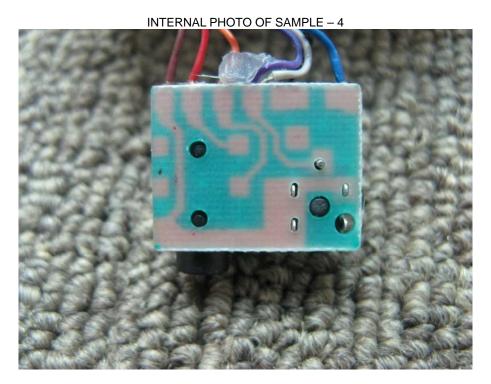






INTERNAL PHOTO OF SAMPLE - 3





PPENDIX II

PHOTOGRAPHS OF THE TEST SETUP

CONDUCTED EMISSION TEST







----END OF REPORT----