## FCC Part 15

## **TEST REPORT**

For

Blinc

Model Name: Y6400

**Brand Name: N/A** 

FCC ID: VWU-Y6400

Report No.: AGC10430911GZ01-4E6

Date of Issue: Nov.20, 2009

Prepared For

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Prepared By

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### **VERIFICATION OF COMPLIANCE**

Applicant:	Shanghai Hehui Safety Products Manufacture Co., Ltd.		
Address	8 Fengjin road, Xidu Industrial Zone, Fengxian District, Shanghai, 201401		
Product Description:	Blinc		
Brand Name:	N/A		
Model Number:	Y6400		
FCC ID	VWU-Y6400		
Report Number:	AGC10430911GZ01-4E6		
Date of Test:	Nov.15, 2009-Nov.20, 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:

Jekey Zhang

Jekey Zhang

Nov.20, 2009

Authorized By

King Zhang

Nov.20, 2009

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#### **GENERAL INFORMATION**

#### 1.1 PRODUCT DESCRIPTION

The EUT is a short range, lower power; **Bluetooth 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	9.25 dBm
Modulation	GFSK
Number of channels	79
Antenna Designation	Integrated Antenna
Power Supply	Internal Lion Composite Battery DC 3.6~4.2V
Travel Adapter	Output :DC5.0V

#### 1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: VWU-Y6400** 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 Word Standardization Certification & Testing Co., Ltd.

1-2/F, Dachong Keji Building, No.28 of Tonggu Road, Nanshan District, Shenzhen, 518057, China

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003.

FCC register No.: 276008

Centre Testing International Corporation

Bldg.C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen, China

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003.

FCC register No.: 510007

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

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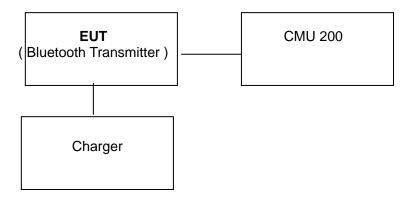
Not available for this EUT intended for grant.

## 1.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

## 1. 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	Blinc		Y6400	VWU-Y6400
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

## 4. DESCRIPTION OF TEST MODES

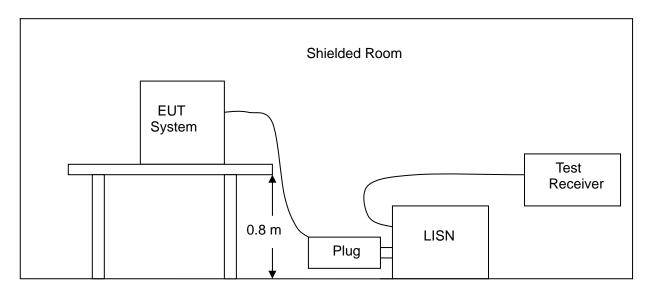
- 1. The EUT has been set to operate continuously on the lowest, the middle and the highest operation frequency individually.
- 2. The EUT stays in continuous transmitting mode on the operation frequency being set.

#### 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 DC3.7V 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					
Name of Equipment Manufacturer Model Serial Number Cal. Date					
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/29/2010	
LISN	Rohde & Schwarz	ESH2-Z5	834549/005	05/29/2010	
LISN	Rohde & Schwarz	ESH2-Z5	834549/005	05/29/2010	
50 Ω Coaxial Switch	Anritsu	MP59B	M20531	05/29/2010	

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## 5.4 LIMITS AND MEASUREMENT RESULT:

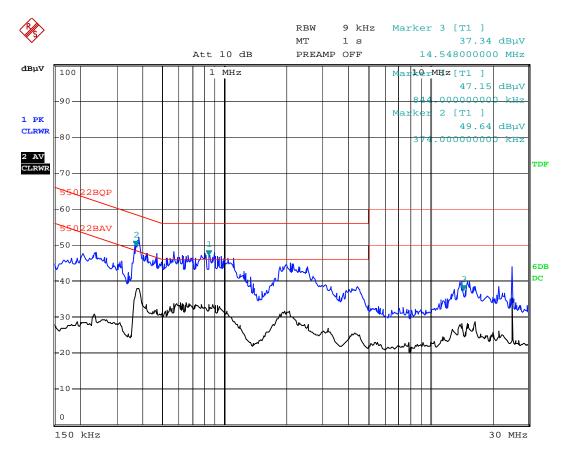
## LIMITS OF LINE CONDUCTED EMISSION TEST

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		

<sup>1\*\*</sup>Note: 1. The lower limit shall apply at the transition frequency.

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

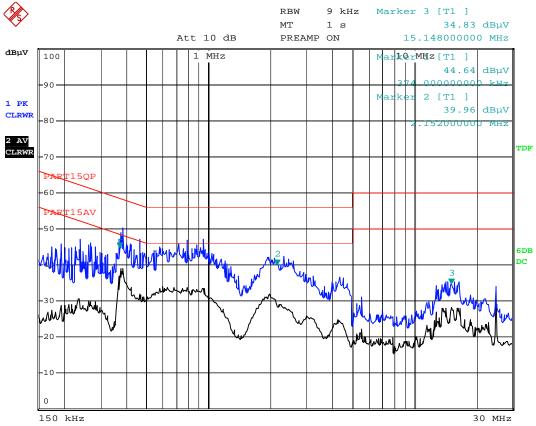
## TEST RESULT OF LINE -L CONDUCTED EMISSION TEST



6400-L

Date: 19.NOV.2009 14:05:32

## TEST RESULT OF LINE -N CONDUCTED EMISSION TEST



6400-N

Date: 19.NOV.2009 14:08:03

#### 6. MAXIMUM OUTPUT POWER

#### **6.1 MEASUREMENT PROCEDURE:**

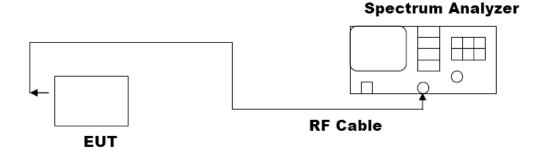
#### **CONDUCTED METHOD**

- 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

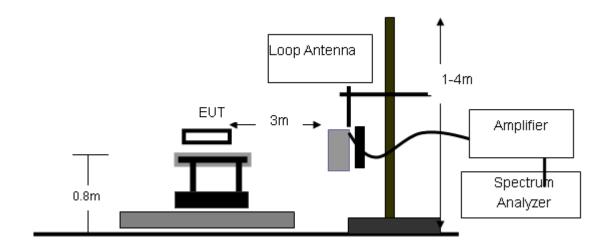
## 6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

#### **CONDUCTED METHOD**

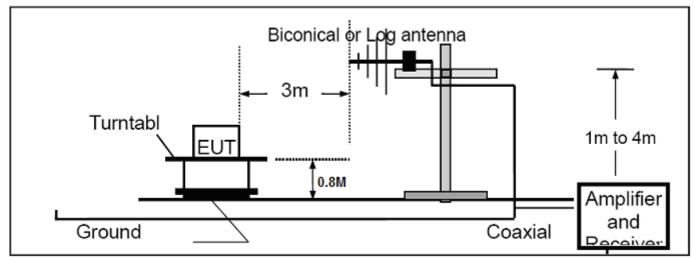


#### **RADIATED EMISSION TEST SETUP**

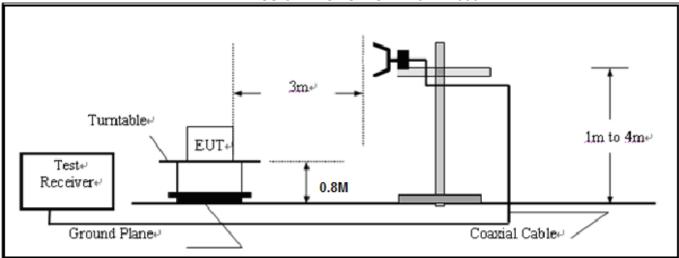
RADIATED MISSION TEST SETUP BELOW 30MHz



## RADIATED MISSION TEST SETUP 30MHz-1000MHz

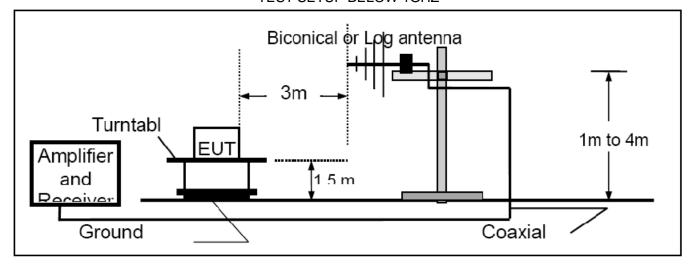


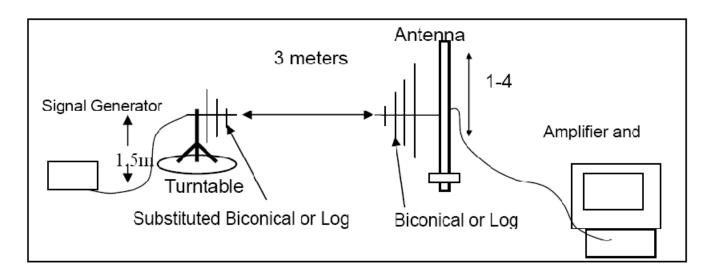
## RADIATED MISSION TEST SETUP ABOVE 1000MHz



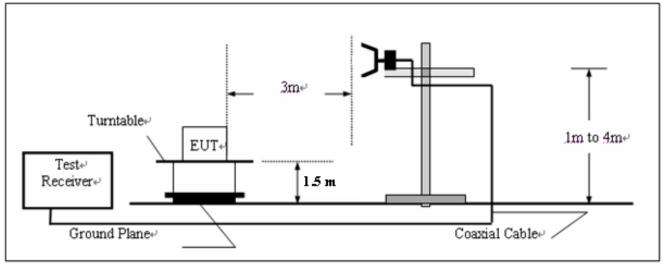
**EIRP TEST SETUP** 

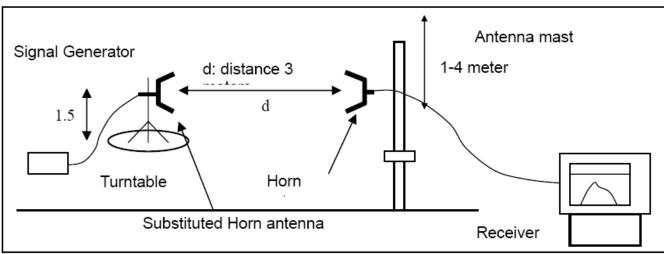
**TEST SETUP BELOW 1GHZ** 





## TEST SETUP ABOVE 1GHZ





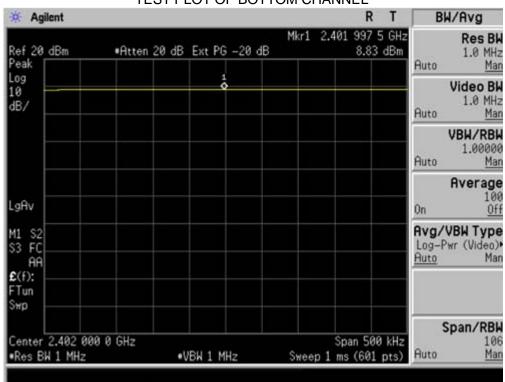
## **6.3 MEASUREMENT EQUIPMENT USED:**

Description	Manufacturer	Model	SERIAL NUMBER	Cal. Date	Cal. Due
Spectrum Analyzer	Rohde & Schwarz	FSEM30	849720/019	05/29/2009	05/29/2010
Amplifier	H.P.	8449B	3008A00277	05/29/2009	05/29/2010
Horn Antenna	Sunol Sciences	DRH-118	A052604	05/29/2009	05/29/2010
Horn Antenna	A.H. Systems Inc.	SAS-574		09/05/2009	09/05/2010
EMI Test Receiver	Rohde & Schwarz	ESCI	100028	05/29/2009	05/29/2010
Amplifier	H.P.	HP8447E	1937A01046	05/29/2009	05/29/2010
Broadband Antenna	Sunol Sciences	JB1	A040904-2	05/29/2009	05/29/2010
LOOP ANTENNA	R&S	HM525		08/27/2009	08/27/2010

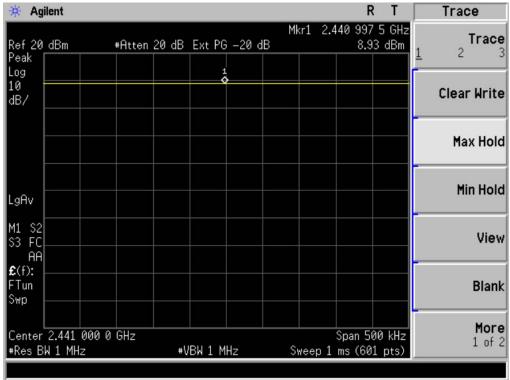
## **6.4 LIMITS AND MEASUREMENT RESULT:**

LIMITS AND MEASUREMENT RESULT						
Applicable	Fraguanay		Measurement Result			
Limits		EIRP (dBm)	Conducted (dBm)	Criteria		
30 dBm	2.402GHz	9.12	8.83	PASS		
30 dBm	2.441GHz	9.25	8.93	PASS		
30 dBm	2.480GHz	9.14	8.84	PASS		

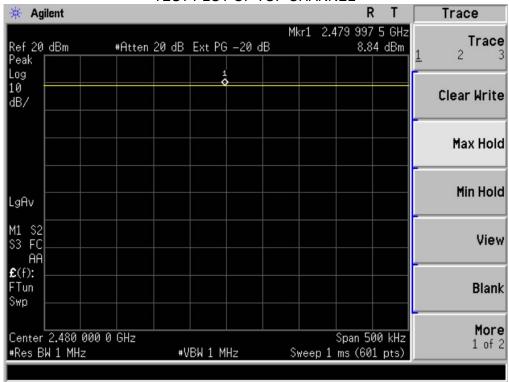
#### TEST PLOT OF BOTTOM CHANNEL



#### TEST PLOT OF MIDDLE CHANNEL



#### **TEST PLOT OF TOP CHANNEL**



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#### 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

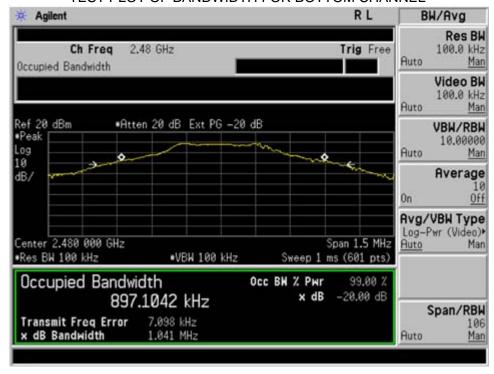
#### 7.3 MEASUREMENT EQUIPMENT USED:

The same as described in Section 6.3

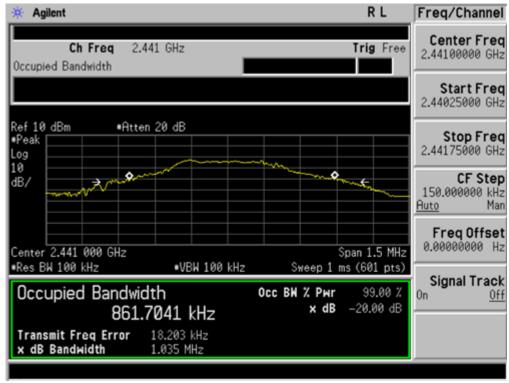
#### 7.4 LIMITS AND MEASUREMENT RESULTS:

LIMITS AND MEASUREMENT RESULT				
Applicable Limite		Measurement Result		
Applicable Limits	Test Data (MHz)		Criteria	
	Bottom Channel	1.041	PASS	
	Middle Channel	1.035	PASS	
	Top Channel	1.007	PASS	

#### TEST PLOT OF BANDWIDTH FOR BOTTOM CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR TOP CHANNEL

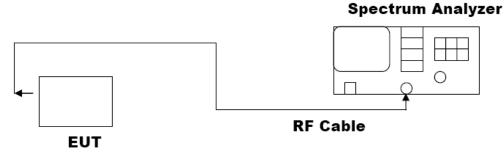


## 8. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY (N/A)

#### **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:**

SHIELDING ROOM								
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 Res	sult				
Applicable Limits	Test Data (dl	Criteria					
	Bottom Channel						
8 dBm / 3KHz	Middle Channel						
	Top Channel		1				

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## 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

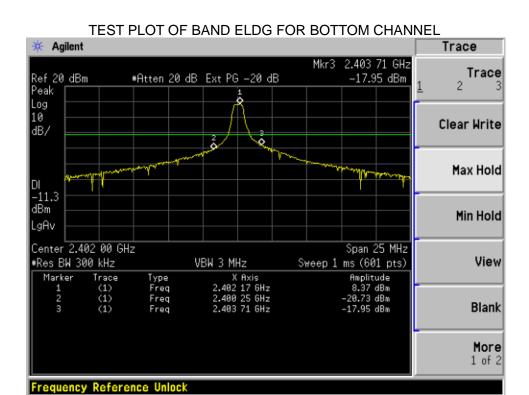
- 1. Conducted test setup
- 2. Radiated Emission test Setup below 1Ghz and Above 1GHz

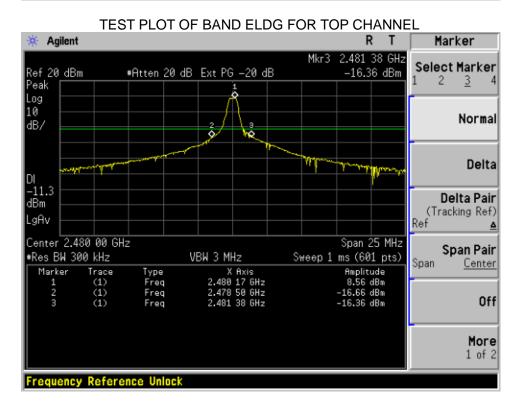
#### 9.3 MEASUREMENT EQUIPMENT USED:

The Same as described in section 6.3

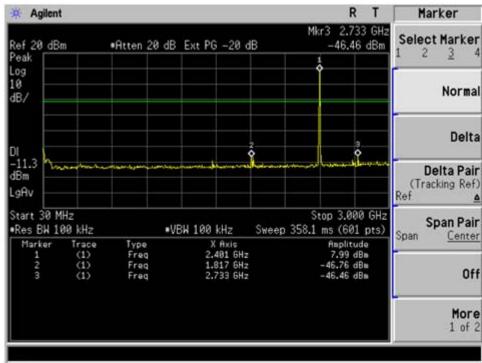
#### 9.4 LIMITS AND MEASUREMENT RESULT:

LIMITS AND MEASUREMENT RESULT							
Applicable Limite	Measurement Result						
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					

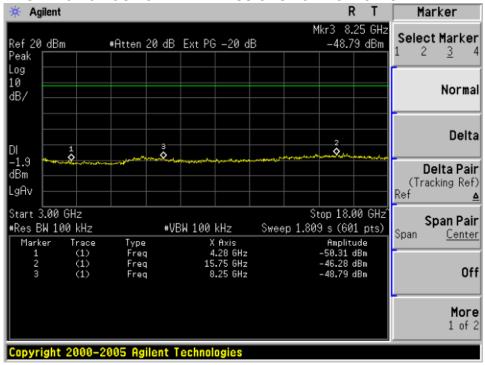




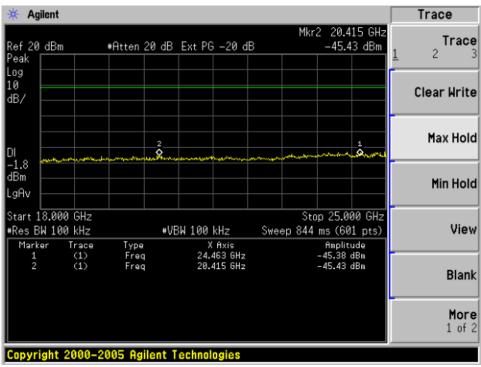
#### TEST PLOT OF OUT OF BAND EMISSIONS FOR BOTTOM CHANNEL - 1



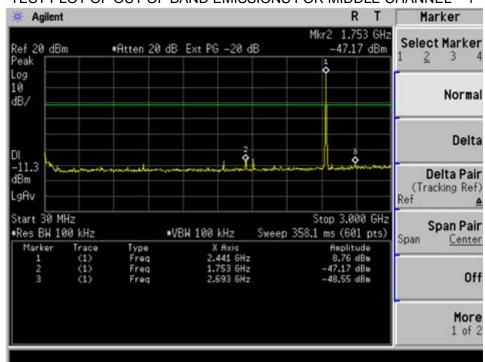
#### TEST PLOT OF OUT OF BAND EMISSIONS FOR BOTTOM CHANNEL - 2



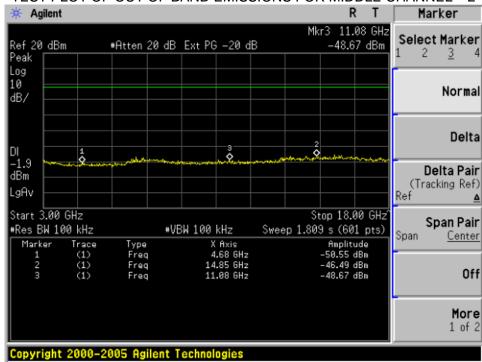
#### TEST PLOT OF OUT OF BAND EMISSIONS FOR BOTTOM CHANNEL - 3



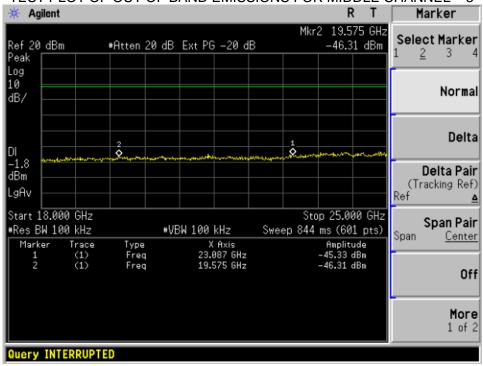
#### TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL - 1



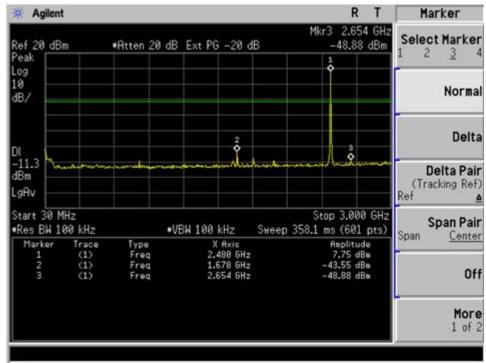
TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL - 2



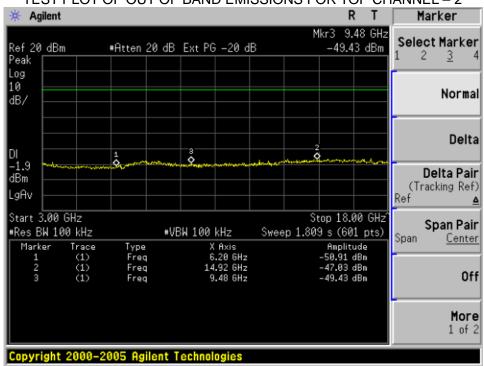
#### TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL - 3



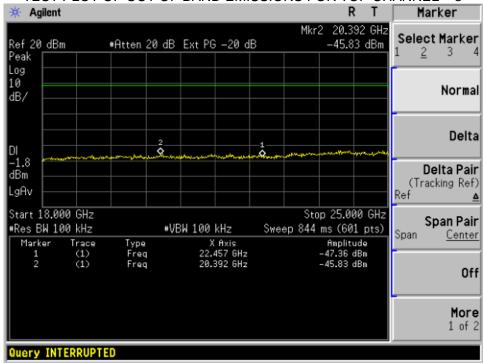
#### TEST PLOT OF OUT OF BAND EMISSIONS FOR TOP CHANNEL - 1



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

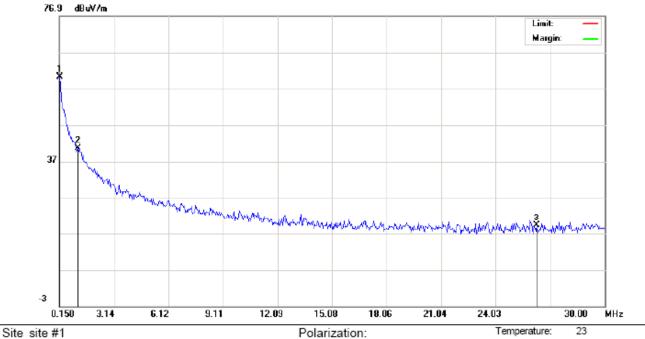


TEST PLOT OF OUT OF BAND EMISSIONS FOR TOP CHANNEL - 3



## **RADIATED EMISSION BELOW 30M**

#### Radiated Emission Measurement



Limit: EUT: Power:

Humidity: 60 %

M/N:

Mode: Note:

No.	Freq.		ling_Le dBuV)	evel	Correct Factor		easurem dBuV/m			mit uV/m)		rgin dB)	
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F Comment
1	0.1500	47.98			12.20	60.18				104		43.82	
2	1.1450	28.43			12.17	40.60			66		-25.40		
3	26.2688	9.12			10.10	19.22			69		-49.78		

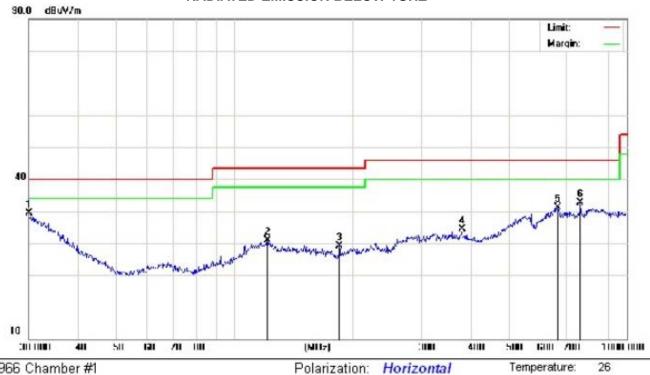
Note: This Body-worn EUT was tested in 3 orthogonal positions and the worst-case data was presented.

Temperature:

60 %

Humidity:

## **RADIATED EMISSION BELOW 1GHZ**



Power:

Site 966 Chamber #1

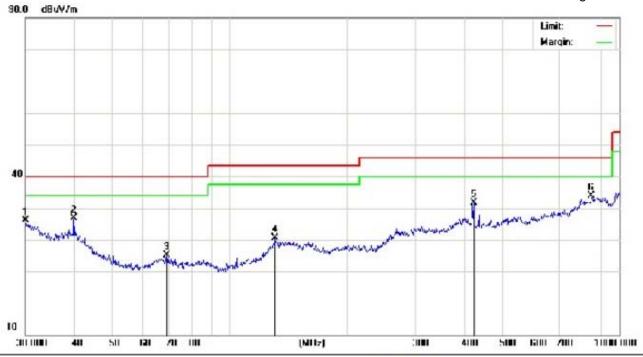
Limit: FCC Part15 RE-Class B\_30-1000MHz

Distance: 3m EUT:

M/N: Mode: Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBu∀/m	dB	Detector	cm	degree	Comment
1	*	30.0000	24.49	4.96	29.45	40.00	-10.55	peak			
2		121.5486	25.25	-4.35	20.90	43.50	-22.60	peak			
3		185.1379	26.75	-7.63	19.12	43.50	-24.38	peak			
4	0	379.9141	27.23	-2.76	24.47	46.00	-21.53	peak			
5	8	665.8035	25.93	5.22	31.15	46.00	-14.85	peak			
6	_	760.7036	29.18	3.47	32.65	46.00	-13.35	peak			

Note: This Body-worn EUT was tested in 3 orthogonal positions and the worst-case data was presented.



Site 966 Chamber #1

Limit: FCC Part15 RE-Class B\_30-1000MHz

EUT:

M/N: Mode: Note: Polarization: Vertical Temperature: 26
Power: Humidity: 60 %

Distance: 3m

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.1054	24.65	1.38	26.03	40.00	-13.97	peak			
2		39.9942	28.68	-1.73	26.95	40.00	-13.05	peak			
3		69.1141	25.54	-10.44	15.10	40.00	-24.90	peak			
4		131.2965	26.06	-5.50	20.56	43.50	-22.94	peak			
5	i	423.5403	31.73	-0.19	31.54	46.00	-14.46	peak			
6	*	848.0563	27.22	6.63	33.85	46.00	-12.15	peak			

Note: This Body-worn EUT was tested in 3 orthogonal positions and the worst-case data was presented.

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# Band Edge Emission: MEASUREMENT PROCEDURE

- 1, Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Centre Frequency = Operation Frequency, span=100MHz, RBW= 1 MHz, VBW= 1MHz.
- 3. The band edges was measured and receorded.

#### **TEST SET-UP**

The Same as described in section 6.2 Radiated Emission test Setup Above 1GHz

	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	iviemo				
2.386	Н	58.81	45.91	74	54	*				
2.400	Н	56.40	46.97	74	54	*				
2.386	V	57.51	43.08	74	54	*				
2.400	V	54.41	42.41	74	54	*				

	Band Edge Emission for Top Channel									
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Momo				
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	Memo				
2.483	Н	57.71	48.61	74	54	*				
2.484	Н	55.61	47.11	74	54	*				
2.496	Н	49.41	44.23	74	54	*				
2.483	V	56.89	46.67	74	54	*				
2.484	V	54.34	46.11	74	54	*				
2.496	V	48.26	43.41	74	54	*				

Note: This Body-worn EUT was tested in 3 orthogonal positions and the worst-case data was presented.

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#### **MEASUREMENT PROCEDURE**

- 1, Set the EUT Work on the top, the middle, the bottom operation frequency individually.
- 2. Set SPA Centre Frequency = Operation Frequency, RBW= 1MHz, VBW= 1MHz.
- 3. The Restricted Band Emission was measured and receorded.

#### **TEST SET-UP**

The Same as described in section 6.2 Radiated Emission test Setup Above 1GHz

	Restricted Band Emission for Bottom Channel									
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Momo				
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	Memo				
4.81	Н	57.09	48.13	74	54	*				
4.81	V	56.24	47.08	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	57.31	48.05	74	54	*			
4.88	V	56.32	46.22	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)	Marsa			
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	Memo			
4.95	Н	57.74	47.99	74	54	*			
4.95	V	56.44	46.65	74	54	*			
Above	Н			74	54	*			
4.95GHz	V			74	54	*			

Note: This Body-worn EUT was tested in 3 orthogonal positions and the worst-case data was presented.

<sup>&</sup>quot;--" Indicated the test value is much lower to limit.

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#### 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, span=20MHz
- 4. Set the Spectrum Analyzer as RBW = VBW = 300KHz

#### 10.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

1. Conducted Method.

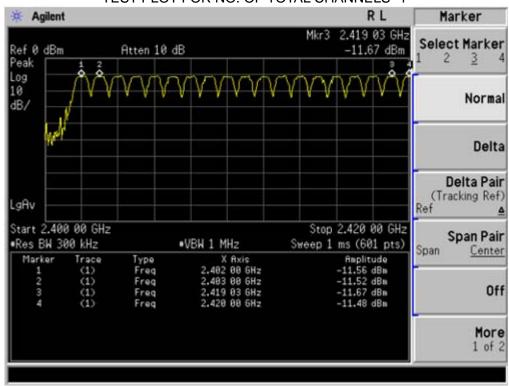
#### **10.3 MEASUREMENT EQUIPMENT USED**

The Same as described in section 6.3

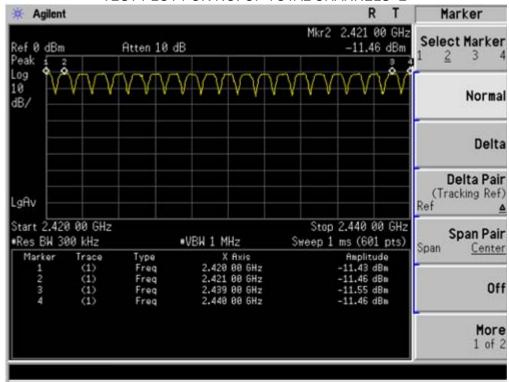
#### **10.4 LIMITS AND MEASUREMENT RESULT:**

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

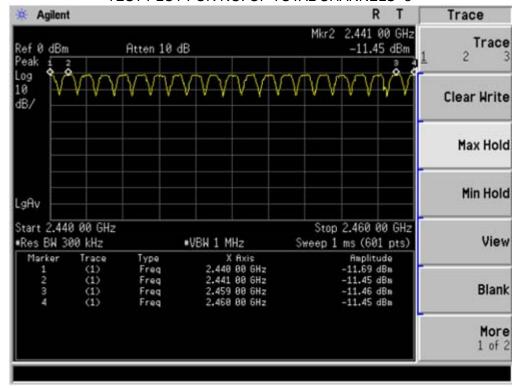
#### TEST PLOT FOR NO. OF TOTAL CHANNELS -1



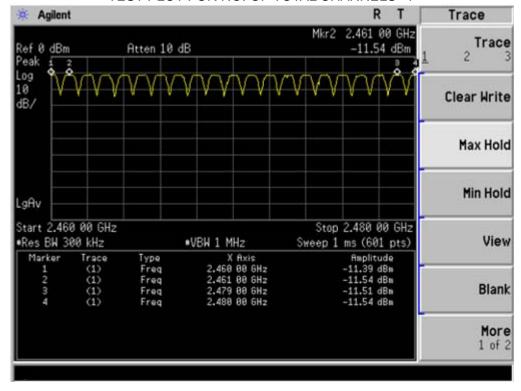
#### TEST PLOT FOR NO. OF TOTAL CHANNELS -2



#### TEST PLOT FOR NO. OF TOTAL CHANNELS -3



## TEST PLOT FOR NO. OF TOTAL CHANNELS -4



# 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 L-CH:

DH1 Time Slot = 0.370 (ms) * (1600/(2*79))*31.6 = 118.4 (ms)

DH3 Time Slot = 1.583 (ms) * (1600/(4*79))*31.6 = 253.3 (ms)

DH5 Time Slot = 2.858 (ms) * (1600/(6*79))*31.6 = 304.8 (ms)

M-CH:

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

DH3 Time Slot = 1.617 (ms) * (1600/(4*79))*31.6 = 258.7 (ms)

DH5 Time Slot = 2.858 (ms) * (1600/(6*79))*31.6 = 304.8 (ms)

H-CH:

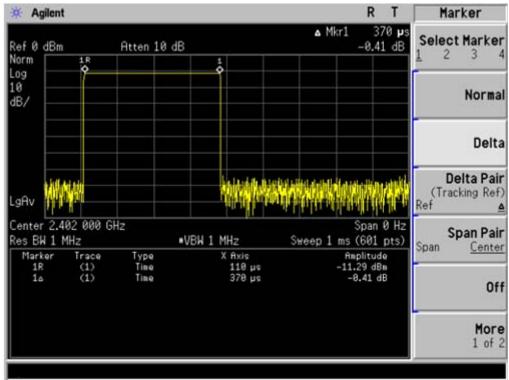
DH1 Time Slot = 0.371(ms) * (1600/(2*79))*31.6 = 118.7 (ms)

DH3 Time Slot = 1.617 (ms) * (1600/(2*79))*31.6 = 258.7 (ms)

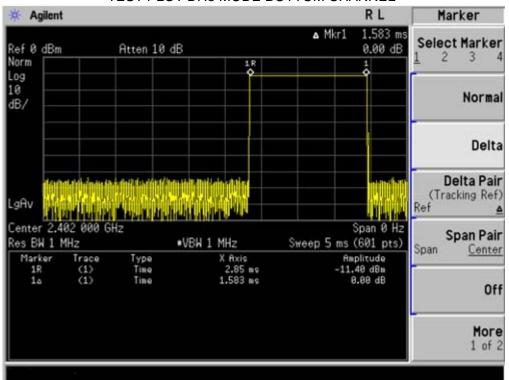
DH5 Time Slot = 2.850(ms) * (1600/(6*79))*31.6 = 258.7 (ms)

DH5 Time Slot = 2.850(ms) * (1600/(6*79))*31.6 = 304.0 (ms)
```

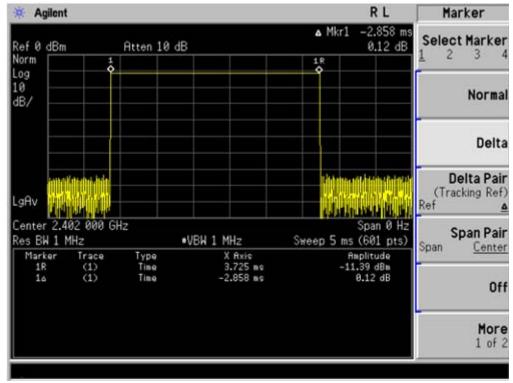
# TEST PLOT DH1 MODE BOTTOM CHANNEL



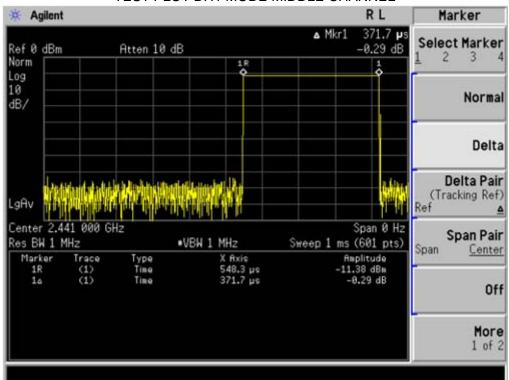
#### TEST PLOT DH3 MODE BOTTOM CHANNEL



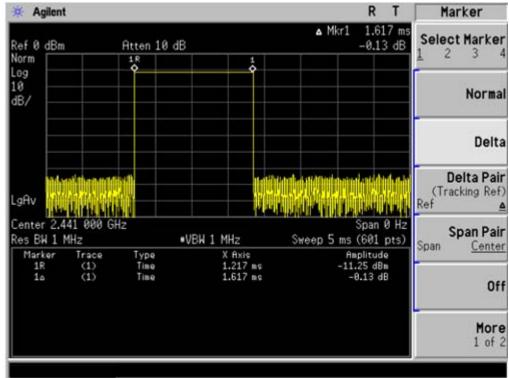
# TEST PLOT DH5 MODE BOTTOM CHANNEL



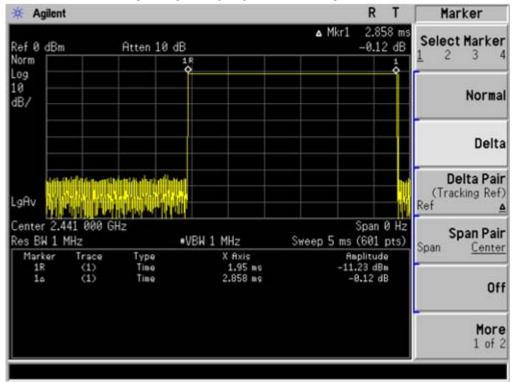
#### TEST PLOT DH1 MODE MIDDLE CHANNEL



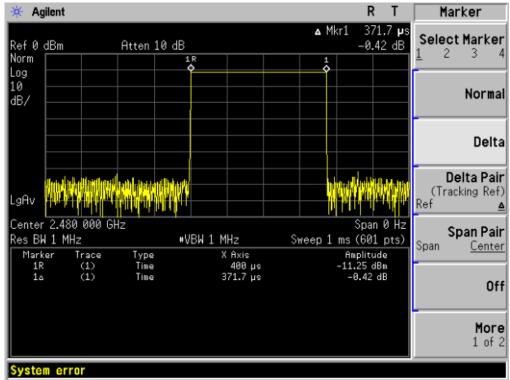
# TEST PLOT DH3 MODE MIDDLE CHANNEL



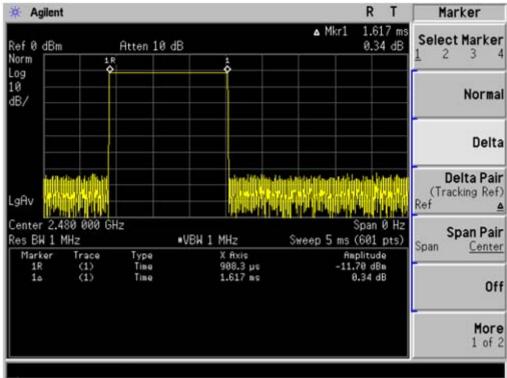
#### TEST PLOT DH5 MODE MIDDLE CHANNEL



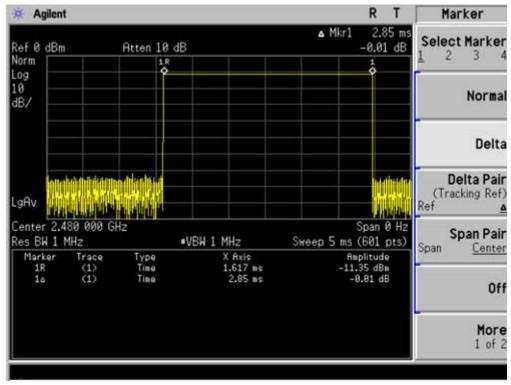
# TEST PLOT DH1 MODE TOP CHANNEL



#### TEST PLOT DH3 MODE TOP CHANNEL



# TEST PLOT DH5 MODE TOP CHANNEL



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# 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

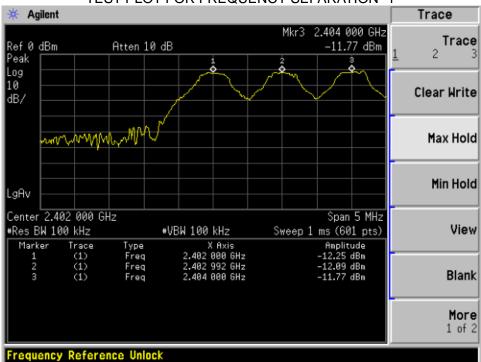
#### 12.3 MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

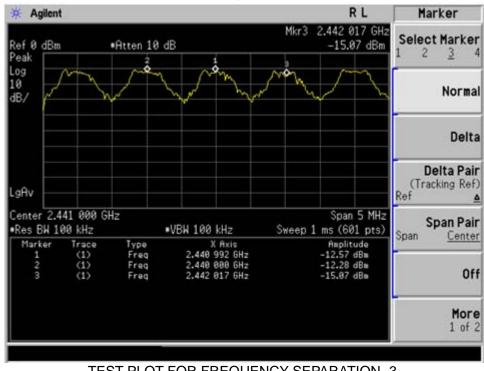
#### 12.4 LIMITS AND MEASUREMENT RESULT

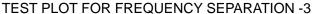
CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	
CH01-CH02	992	>=25 KHz or 2/3 20 dB BW	Pass
CH39-CH40	1009		
CH78-CH79	992		

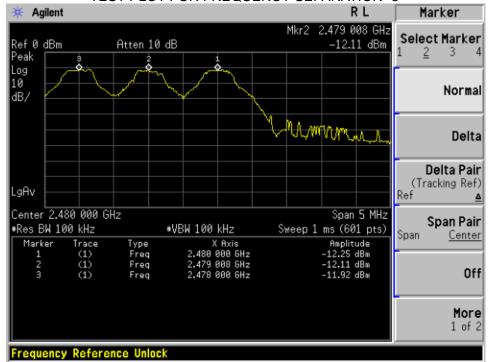




# TEST PLOT FOR FREQUENCY SEPARATION -2







# **APPENDIX I** PHOTOGRAPHS OF THE EUT ALL VIEW OF SAMPLE

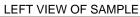


TOP VIEW OF SAMPLE



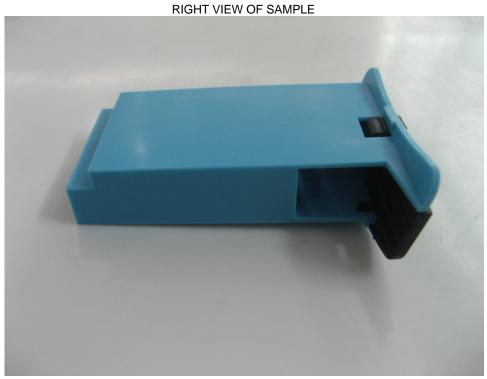












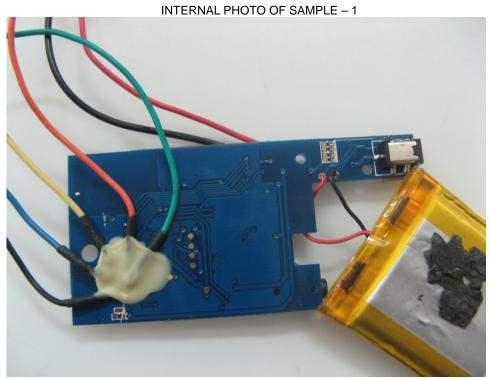
FRONT VIEW OF SAMPLE

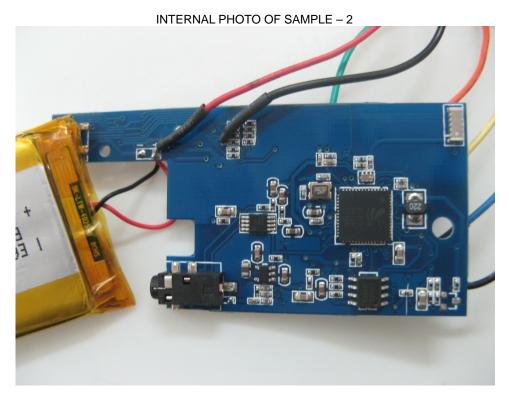










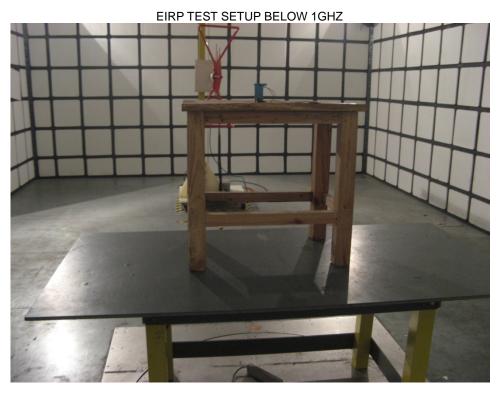


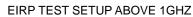
PPENDIX II

PHOTOGRAPHS OF THE TEST SETUP

CONDUCTED EMISSION TEST









RADIATED EMISSION TEST SETUP



----END OF REPORT----