FCC Test Report

Report No.: AGC07S110601-1F2B

FCC ID : XELBT-501

PRODUCT DESIGNATION : Bluetooth Stereo Headset

BRAND NAME : ORICORE

TEST MODEL : BT-501

CLIENT : Shenzhen Hongnanke Communication Equipment Co., Ltd

DATE OF ISSUE : July 25, 2011

STANDARD(S) : FCC Part 15 Rules

Attestation of Global Compliance Co., Ltd.

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VERIFICATION OF COMPLIANCE

	Shenzhen Hongnanke Communication Equipment Co., Ltd	
Applicant	No.16,the Second Industry Park, Xiakeng Tongle, Longgang District, Shenzhen, Guangdong, China	
	Shenzhen Hongnanke Communication Equipment Co., Ltd	
Manufacturer	No.16,the Second Industry Park, Xiakeng Tongle, Longgang District, Shenzhen, Guangdong, China	
Product Designation	Bluetooth Stereo Headset	
Brand Name	ORICORE	
Model Name	BT-501	
FCC ID	XELBT-501	
Report Number	AGC07S110601-1F2B	
Date of Test	July 22, 2011 to July 23, 2011	

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance 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.

Tested By:

Curoky Chen July 25, 2011

Reviewed By:

Forrest Lei July 25, 2011

Approved By:

Solger Zhang July 25, 2011

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

The EUT is a **Bluetooth Stereo Headset** designed as a "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	3.63dBm	
Bluetooth Version:	V2.1 without EDR	
Modulation	GFSK	
Number of channels	79	
Antenna Designation	Integrated Antenna	
Antenna Gain	0.8dBi	
Power Supply	DC3.7V by Built-in Li-ion Battery	
**note: it can't communicate information with PC.		

1.2 TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402MHZ
	1	2403MHZ
2400~2483.5MHZ	:	:
2400~2403.3WITZ	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

1.3 RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

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1.4 EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01,51,03,55,05,04

1.5 EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

1 LAP/UAP of the master of the connection

2 Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and Is never turned off. For synchronization with other units only offset are used. It has no relation to the time Of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about One day(23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire.

LAP(24 bits),4LSB's(4bits)(Input 1) and the 27MSB's of the clock(Input 2) are used. With this input values different mathematical procedures(permutations, additions, XOR-operations) are performed to generate to Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter)than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.

1.6 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: XELBT-501** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

1.7 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.

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1.8 TEST FACILITY

All measurement facilities used to collect the measurement data are located at Attestation of Global Compliance Co., Ltd.

1&2F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, XiXiang, Baoan District, Shenzhen The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC register No.: 259865

1.9 SPECIAL ACCESSORIES

Refer to section 2.2.

1.10 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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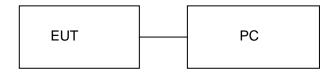
2. SYSTEM TEST CONFIGURATION

2.1 CONFIGURATION OF EUT SYSTEM

Configure 1(Normal Hopping mode)



Configure 2(Control by PC for continuous transmitting)



2.2 EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth Stereo Headset	N/A	BT-501	EUT
2	PC	Lenovo	SL410K	A.E

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3. SUMMARY OF TEST RESULTS

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

4. DESCRIPTION OF TEST MODES

The following operating modes were applied for the related test items.

No.	TEST MODES
1	Low Channel(TX)
2	Middle Channel(TX)
3	High Channel(TX)
4	Normal Hopping

Note: All test modes were performed during the testing, but only recording the worst mode test data in the test Report.

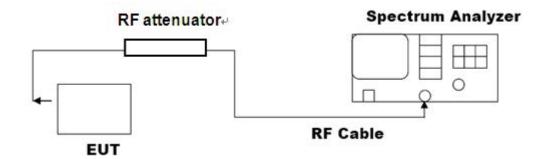
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5. PEAK OUTPUT POWER

5.1 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 Span = approximately 5 times the 20 dB bandwidth, centered on a hoping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW; Sweep = auto; Detector function = peak
- 5. Set SPA Trace 1 Max hold, then View.

5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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5.3 MEASUREMENT EQUIPMENT USED

Description	Manufacturer	Model	SERIAL NUMBER	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4440A	N/A	06/27/2011	06/26/2012
RF attenuator	N/A	RFA20db	N/A	N/A	N/A

5.4 LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT				
Frequency (GHz)	Result (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.402	3.63	30	Pass	
2.441	3.58	30	Pass	
2.480	3.49	30	Pass	

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6 20 DB BANDWIDTH

6.1 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 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW; Sweep = auto; Detector function = peak
- 5. Set SPA Trace 1 Max hold, then View.

6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The Same as described in Section 5.2

6.3 MEASUREMENT EQUIPMENT USED

The same as described in Section 5.3

6.4 LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT				
Applicable Limite	Measurement Result			
Applicable Limits	Test Data (MHz)		Criteria	
	Low Channel	0.976	PASS	
N/A	Middle Channel	0.970	PASS	
	High Channel	0.988	PASS	



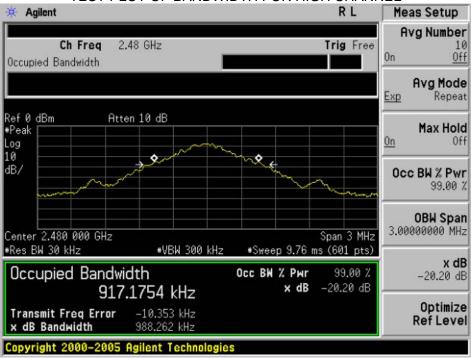


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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7 CONDUCTED SPURIOUS EMISSION

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.
- 4. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 - RBW = 100 kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak.
- 5. Set SPA Trace 1 Max hold, then View.

7.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The Same as described in section 5.2

7.3 MEASUREMENT EQUIPMENT USED

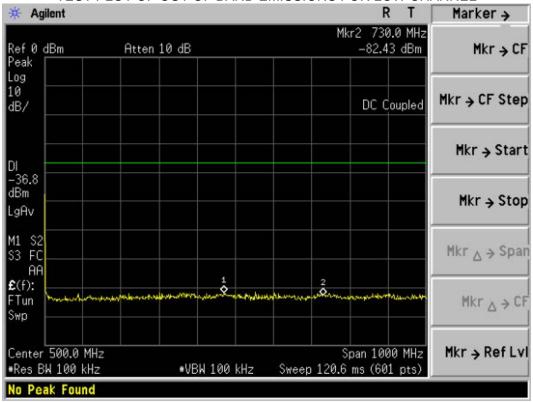
The Same as described in section 5.3

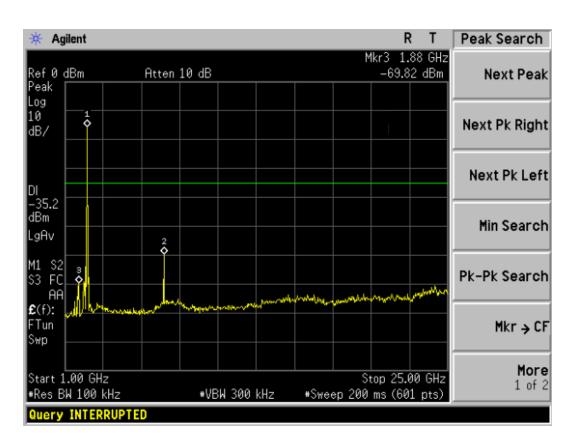
7.4 LIMITS AND MEASUREMENT RESULT

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	

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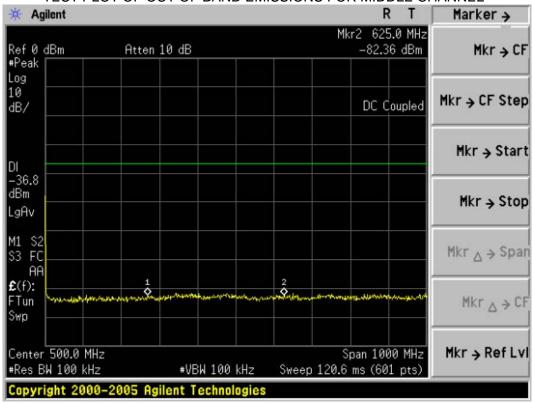
TEST PLOT OF OUT OF BAND EMISSIONS FOR LOW CHANNEL

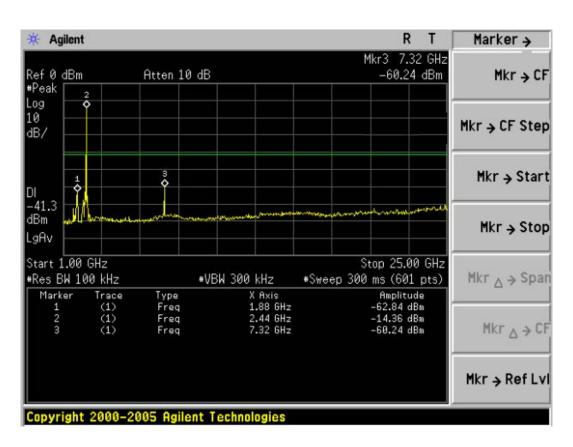




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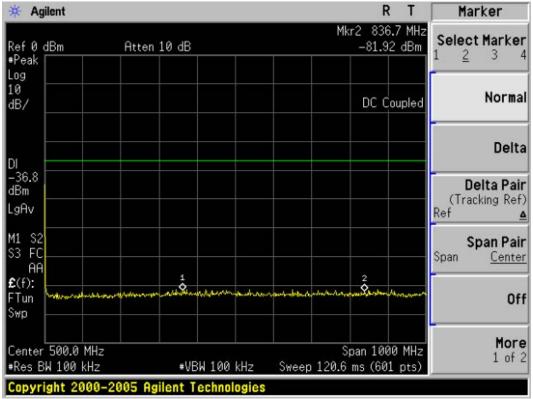


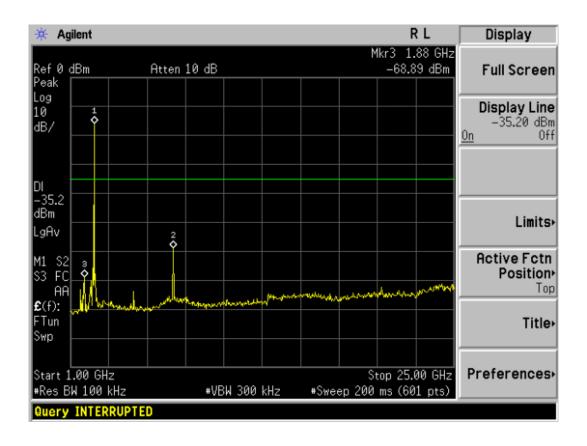




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TEST PLOT OF OUT OF BAND EMISSIONS FOR HIGH CHANNEL





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8 RADIATED EMISSION

8.1 MEASUREMENT PROCEDURE

 Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

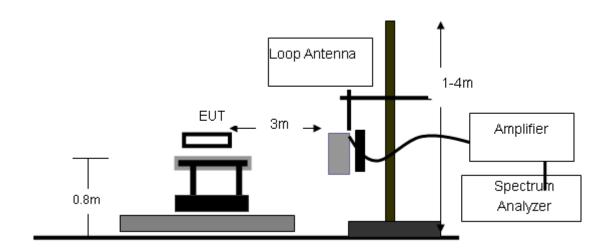
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The following table is the setting of spectrum analyzer and receiver.'

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

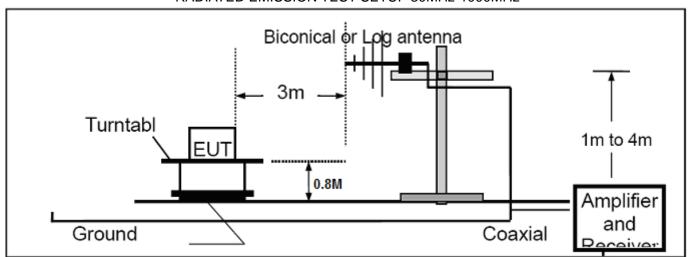
8.2 TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz

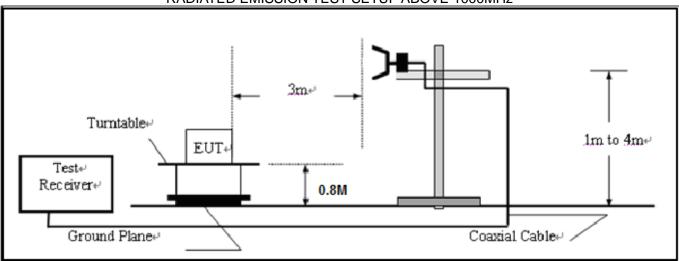


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RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



8.3 TEST EQUIMENT LIST

Description	Manufacturer	Model	SERIAL NUMBER	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4440A	N/A	06/29/2010	06/28/2011
Amplifier	EM	EM30180	0607030	06/29/2010	06/28/2011
Horn Antenna	EM	EM-AH-10180	N/A	06/29/2010	06/28/2011
Horn Antenna	A.H. Systems Inc.	SAS-574		06/29/2010	06/28/2011
EMI Test Receiver	Rohde & Schwarz	ESCI	N/A	06/29/2010	06/28/2011
Amplifier	EM	EM30180	N/A	06/29/2010	06/28/2011
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	N/A	06/29/2010	06/28/2011
Loop Antenna	Daze	ZN30900N	SEL0097	06/29/2010	06/28/2011
Isolation Transformer	LETEAC	LTBK		06/29/2010	06/28/2011

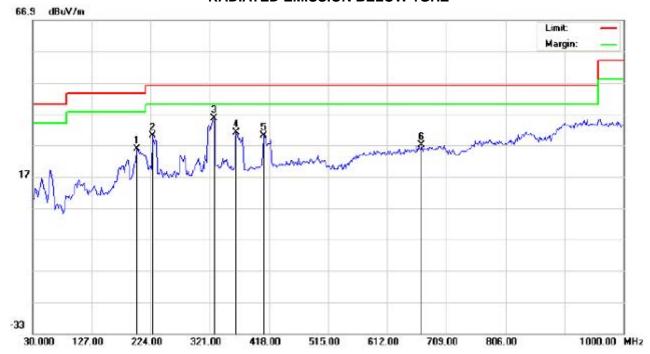
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8.4 TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequency to 30MHz.

RADIATED EMISSION BELOW 1GHZ



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Bluetooth Stereo Headset

M/N: BT-501 Mode: 2441TX

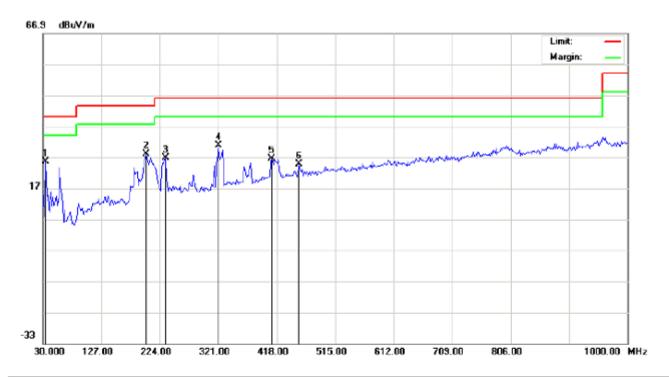
Note:

Polarization:	Horizontal	Temperati	ure: 26
Power:		Humidity:	60 %

Distance: 3m

No.	Mk	Fre q.	Reading	Factor	Measurement	Limit	Over	55.90	Detector	Antenna Height	Table Degree	Comment
	. [MHz	dBu∀	dB/m	dBuV/m	dBuV/m	αÐ		cm	degree		
1		201.3667	13,71	11.99	25.70	43.50	-17.80	peak				
2	П	227.2333	14.90	15.22	30.12	46.00	-15.88	peak				
3	*	327.4667	16.97	18.56	35.53	46.00	-10.47	peak				
4		364.6500	11.93	19.14	31.07	46.00	-14.93	peak				
5		409.9167	8.90	21.13	30.03	46.00	-15.97	peak				
6		668.5833	1.28	25.82	27.10	46.00	-18.90	peak				

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Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

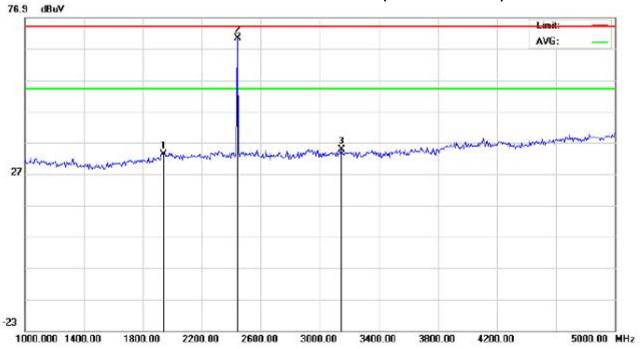
EUT: Bluetooth Stereo Headset Distance: 3m

M/N: BT-501 Mode: 2441TX

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	αÐ		ст	degree	
1	*	34.8500	8.80	16.66	25.46	40.00	-14.54	peak			
2		201.3667	13.02	15.12	28.14	43.50	-15.36	peak			
3		233.7000	10.64	16.14	26.78	46.00	-19.22	peak			
4		321.0000	12.32	18.34	30.66	46.00	-15.34	peak			
5		409.9167	5.51	21.13	26.64	46.00	-19.36	peak			
6		455.1833	3.16	21.51	24.67	46.00	-21.33	peak			

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RADIATED EMISSION ABOVE 1GHZ(1-10th Harmonics)



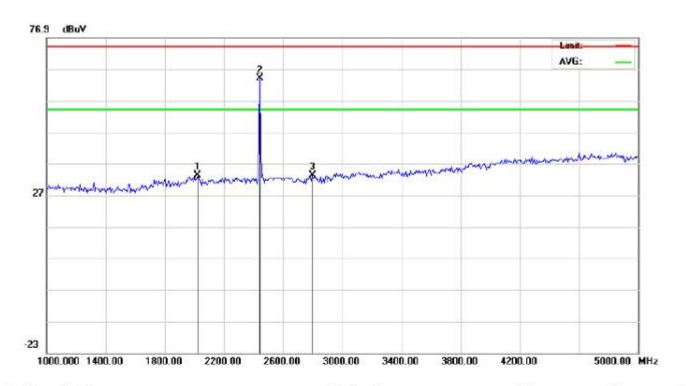
Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1 GHZ(PK) Power: Humidity: 60 %

EUT: Bluetooth Stereo Headset Distance: 3m

M/N: BT-501 Mode: 2441TX

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	4500	MHz	dBu∀	dΒ	dBu∀	dBu∀	dB		cm	degree	
1		1940.000	44.04	-10.75	33.29	74.00	-40.71	peak			
2	*	2441.000	79.81	-9.64	70.17	74.00	-3.83	peak			
3		3146.667	43.12	-8.22	34.90	74.00	-39.10	peak		3	

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Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1 GHZ(PK) Power: Humidity: 60 %

EUT: Bluetooth Stereo Headset Distance: 3m

M/N: BT-501 Mode: 2441TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
PROPERTY.	18	MHz	dBu∀	dB	dBuV	dBu∀	dB		cm	degree	
1		2020.000	43.40	-10.10	33.30	74.00	-40.70	peak			
2	*	2441.000	73.58	-9.64	63.94	74.00	-10.06	peak			
3		2800.000	42.22	-8.84	33.38	74.00	-40.62	peak		6.0	

Note: 5~25GHz at leat have 20dB margin. no recording in the test report. Factor=Antenna Factor+ Cable loss-Amplifier gain, Margin=Measurement-Limit.

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9 BAND EDGE EMISSION

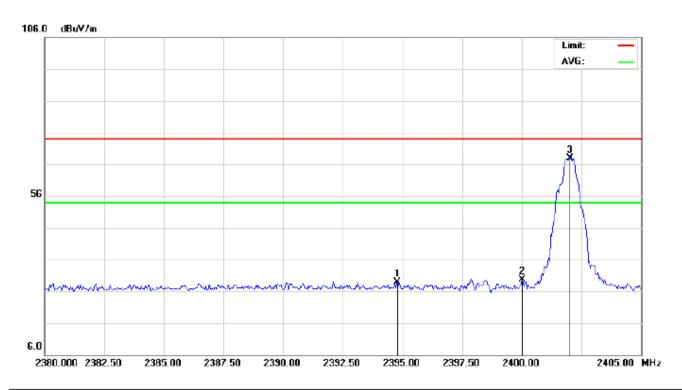
9.1 MEASUREMENT PROCEDURE

- 1, Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency = Operation Frequency, RBW>1%Span, VBW>= RBW.
- 3. The band edges was measured and recorded.

9.2 TEST SET-UP

Radiated same as 8.2

9.3 TEST RESULT



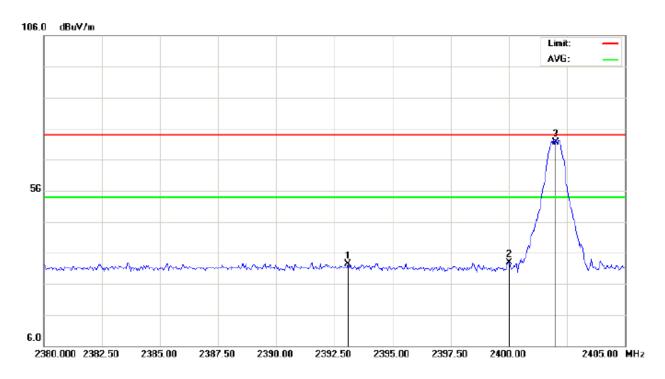
Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Bluetooth Stereo Headset Distance: 3m

M/N: BT-501 Mode: 2042TX

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	. [MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2394.792	28.50	0.31	28.81	74.00	-45.19	peak			
2		2400.000	29.28	0.32	29.60	74.00	-44.40	peak			
3	*	2402.000	67.59	0.32	67.91	74.00	-6.09	peak			

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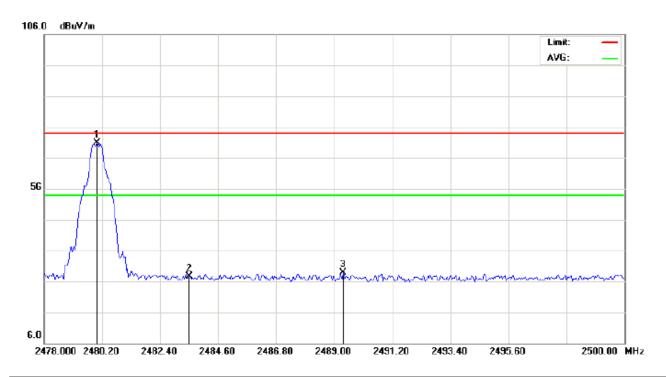
Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Bluetooth Stereo Headset Distance: 3m

M/N: BT-501 Mode: 2402TX

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2393.083	32.14	0.31	32.45	74.00	-41.55	peak			
2		2400.000	32.62	0.32	32.94	74.00	-41.06	peak			
3	*	2402.000	71.42	0.32	71.74	74.00	-2.26	peak			

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Site: site #1 Polarization: Vertical Temperature: 26

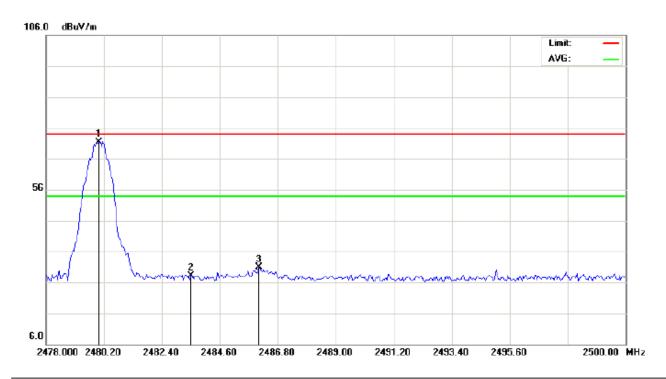
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Bluetooth Stereo Headset Distance: 3m

M/N: BT-501 Mode: 2480TX

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	70.51	0.41	70.92	74.00	-3.08	peak			
2		2483.500	27.10	0.41	27.51	74.00	-46.49	peak			
3		2489.330	28.44	0.42	28.86	74.00	-45.14	peak			

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Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT: Wireless Stereo Headset Distance: 3m

M/N: BT-501 Mode: 2480TX

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	71.01	0.41	71.42	74.00	-2.58	peak			
2		2483.500	27.81	0.41	28.22	74.00	-45.78	peak			
3		2486.067	30.35	0.41	30.76	74.00	-43.24	peak			

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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
- 4. Set the Spectrum Analyzer as RBW >=1%Span,VBW=RBW

10.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 5.2

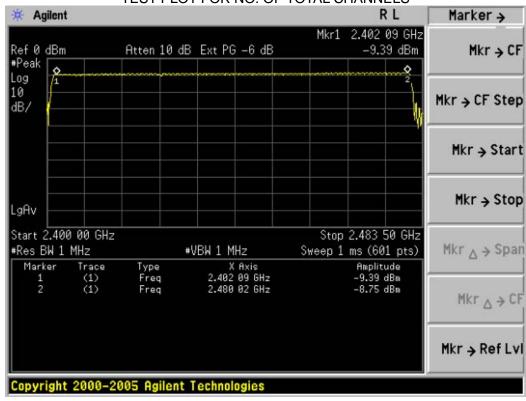
10.3 MEASUREMENT EQUIPMENT USED

The Same as described in section 5.3

10.4 LIMITS AND MEASUREMENT RESULT

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





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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 5.2

11.3 MEASUREMENT EQUIPMENT USED

The same as described in section 5.3

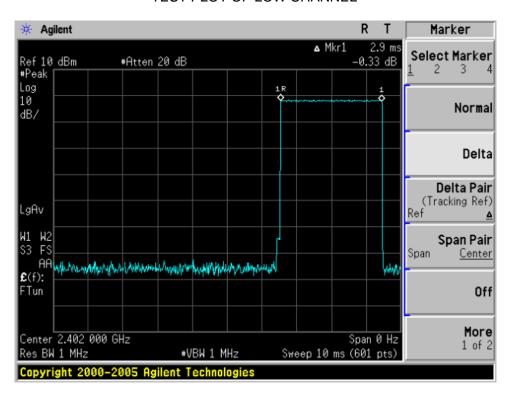
11.4 LIMITS AND MEASUREMENT RESULT

Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.9	31.6	309.33	400
Middle	2.883	31.6	307.52	400
High	2.9	31.6	309.33	400

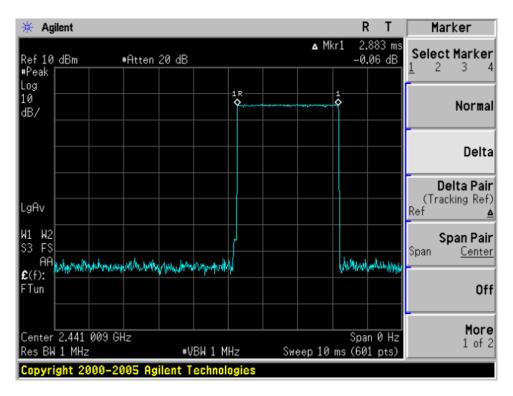
Low Channel Time 2.9*(1600/6)/79*31.6=309.33ms Middle Channel Time 2.883*(1600/6)/79*31.6=307.52ms High Channel Time 2.9*(1600/6)/79*31.6=309.33ms

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TEST PLOT OF LOW CHANNEL

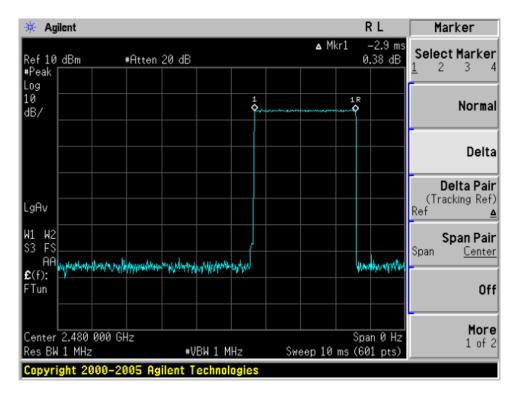


TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH 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>=1%Span, VBW=RBW

12.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 5.2

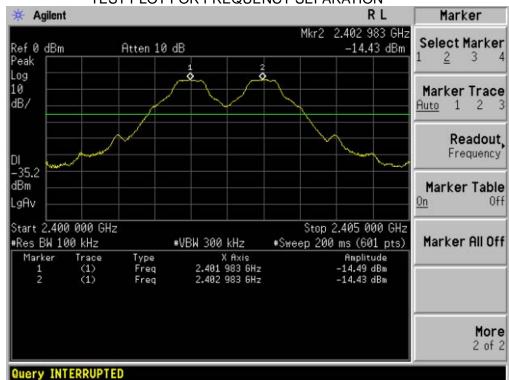
12.3 MEASUREMENT EQUIPMENT USED

The same as described in section 5.3

12.4 LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
OHANNEL	KHz	KHz	
CH00-CH01	1000	>=25 KHz or 2/3 20 dB BW	Pass





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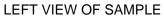
APPENDIX I
PHOTOGRAPHS OF THE EUT
TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



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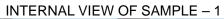




RIGHT VIEW OF SAMPLE



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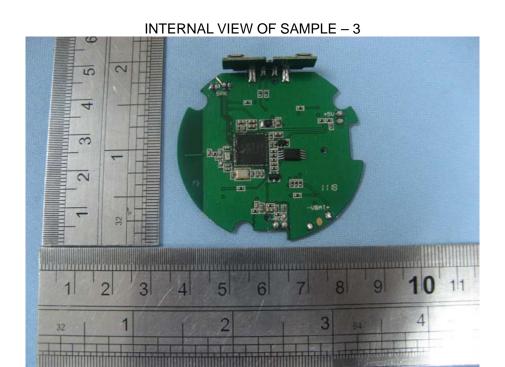


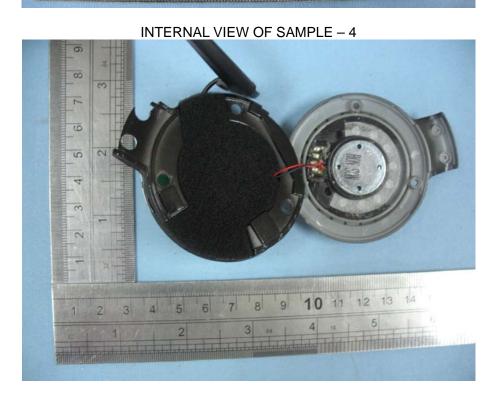


INTERNAL VIEW OF SAMPLE – 2

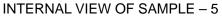


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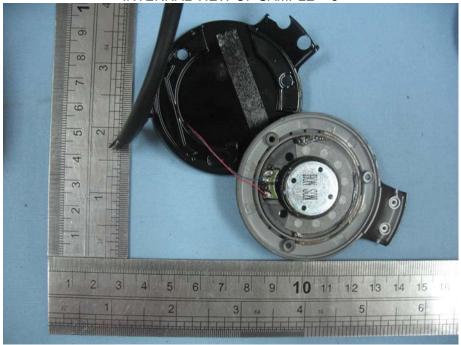


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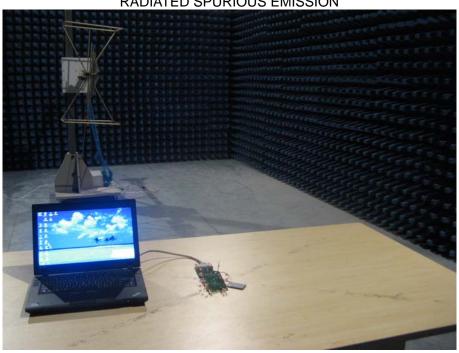


INTERNAL VIEW OF SAMPLE - 6



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APPENDIX II PHOTOGRAPHS OF THE TEST SETUP RADIATED SPURIOUS EMISSION



----END OF REPORT----