FCC Test Report

Report No.: AGC04747150701FE03

FCC ID : ZL5MOOB

Original Equipment APPLICATION PURPOSE

PRODUCT DESIGNATION Audio On Plus

BRAND NAME : Ministry of Sound

MOOB-CHGM-000-001, MOOB-WHGM-000-001, **MODEL NAME**

MOOB-REGM-000-001, MOOB-BUGM-000-001

CLIENT : Bullitt Group

DATE OF ISSUE : Aug.06,2015

STANDARD(S) FCC Part 15 Rules

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Aug.06,2015	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	Bullitt Group		
Address	No.4, The Aquarium, King Street, Reading RG1 2AN, United Kingdom		
Manufacturer	Dongguan Sen DongLv Electronics Co.,Ltd		
Address	Nanjiang RD 111st,Daning,Humen Town,Dongguan,Guangdong,China		
Product Designation	Audio On Plus		
Brand Name	Ministry of Sound		
Test Model	MOOB-CHGM-000-001		
Series Model	MOOB-WHGM-000-001, MOOB-REGM-000-001, MOOB-BUGM-000-001		
Different Description	All the same except for the model name and color.		
Date of test	Jul.29,2015 to Jul.30,2015		
Deviation	None		
Condition of Test Sample	Normal		
Report Template	AGCRT-US-BR/RF (2013-03-01)		

We hereby certify that:

The above equipment was tested by Compliance Certification Service(Shenzhen) Inc. 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 (2009) 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	Water Zuo			
,	Water Zuo(Zuo Yingying)	Aug.06,2015		
Reviewed By	Formesto ce			
	Forrest Lei(Lei Yonggang)	Aug.06,2015		
Approved By	golga stong			
	Solger Zhang(Zhang Hongyi) Authorized Officer	Aug.06,2015		

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "Audio On Plus" 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
RF Output Power	5.83dBm(Max)
Bluetooth Version	V 3.0
Modulation	GFSK, π /4-DQPSK, 8DPSK
Number of channels	79
Hardware Version	1.0
Software Version	1.0
Antenna Designation	PCB antenna
Antenna Gain	1.75445dBi
Power Supply	DC3.7V by Battery

Note: The USB port only used for charging and can't be used to transfer data with PC.

BT is not active when charging.

The device supports NFC function, but NFC tag is passive.

2.2. TABLE OF CARRIER FREQUENCYS

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

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ,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.

2.4. 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

2.5. 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 ehavior zation 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 te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

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.

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2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: ZL5MOOD** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

Test has been referenced to the DA 00-705

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
1	Low channel TX	
2	Middle channel TX	
3	High channel TX	
4	Normal Operating (BT)	

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT used fully-charged battery when tested.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Audio On Plus	Ministry of Sound	MOOB-CHGM-000-001	EUT
2	PC	Dell	INSPIRON	A.E
3	Control box	N/A	N/A	A.E
4	USB Cable	N/A	0.4m, unshielded	A.E
5	Audio Cable	N/A	0.4m, unshielded	A.E
6	IPOD	APPLE	A1367	A.E

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak 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	N/A
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Frequency Separation Compliant	

Note: N/A means not applicable

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6. TEST FACILITY

Site Compliance Certification Service(Shenzhen) Inc.	
Location No.10-1 Mingkeda Logistics Park, No.18 Huanguan South RD. Guan lan Town,Baoan Distr	
FCC Registration No.	441872
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009.

ALL TEST EQUIPMENT LIST

Radiated Emission Test Site 966(2)						
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration	
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2015	03/01/2016	
EMI TEST RECEIVER	ROHDE&SCHWAR Z	ESCI	100783	03/09/2015	03/08/2016	
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/17/2016	
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2015	03/17/2016	
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	07/10/2015	07/09/2016	
Bilog Antenna	SCHAFFNER	CBL6143	5082	03/01/2015	03/01/2016	
Horn Antenna	SCHWARZBECK	BBHA9120	D286	03/01/2015	03/01/2016	
Loop Antenna	COM-POWER	AL-130	121044	09/27/2014	09/26/2015	
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R	
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R	
Controller	СТ	N/A	N/A	N.C.R	N.C.R	
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2015	02/27/2016	
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R	
Test S/W FARAD		LZ-RF / CCS-SZ-3A2				

Conducted Emission Test Site							
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration		
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI	100783	03/09/2015	03/08/2016		
LISN(EUT)	ROHDE&SCHWA RZ	ENV216	101543-WX	03/09/2015	03/08/2016		
LISN	EMCO	3825/2	8901-1459	03/09/2015	03/08/2016		
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	03/04/2015	03/03/2016		
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE					

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

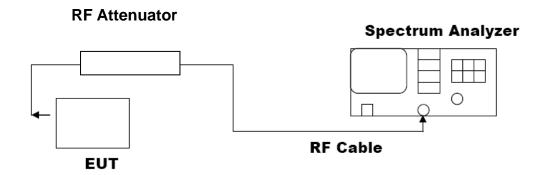
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW.
- 4. Record the maximum power from the Spectrum Analyzer.

Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

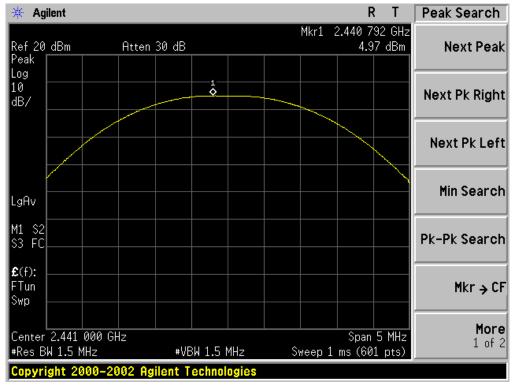
PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION						
Frequency (GHz)	Pass or Fail					
2.402	3.84	30	Pass			
2.441	4.97	30	Pass			
2.480	5.83	30	Pass			

CH0

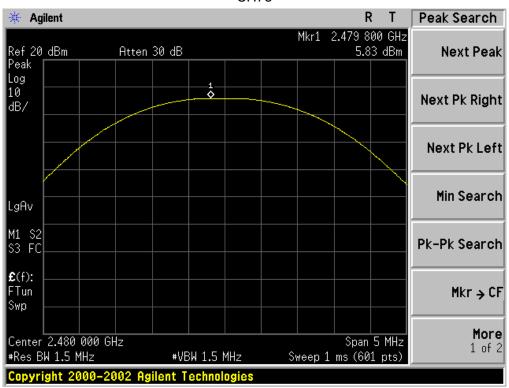


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CH39



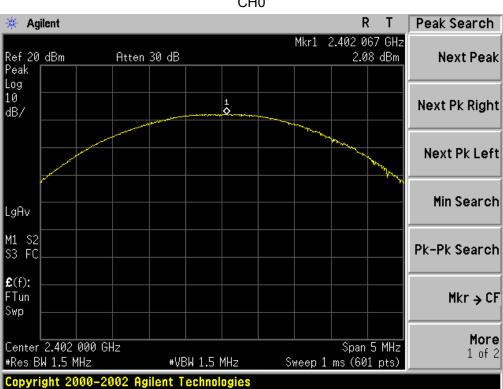
CH78



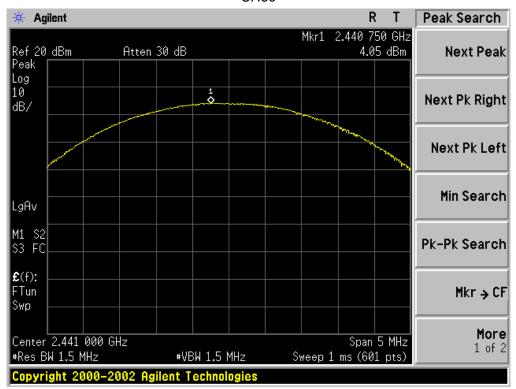
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION					
Frequency Peak Power Applicable Limits (GHz) Pass or Fail					
2.402	2.08	30	Pass		
2.441	4.05	30	Pass		
2.480	5.11	30	Pass		

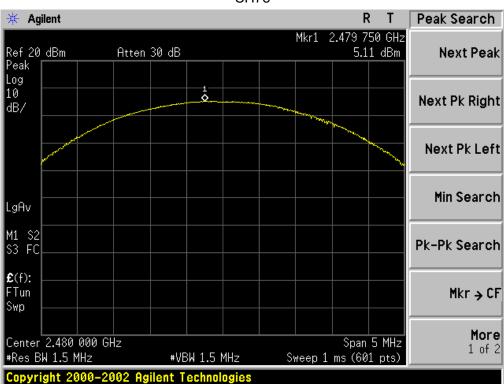
CH₀



CH39



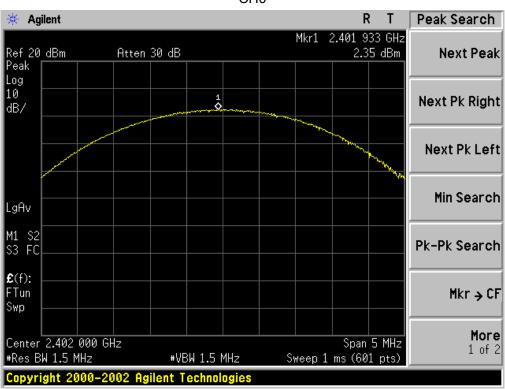
CH78



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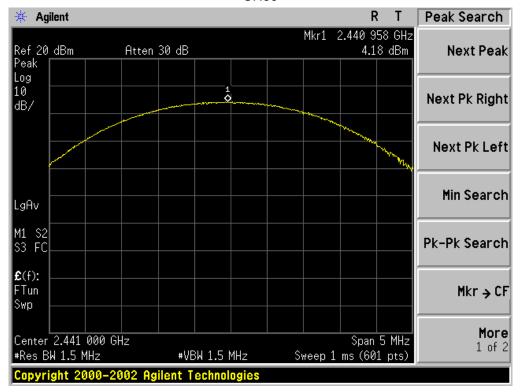
PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION						
Frequency Peak Power Applicable Limits (GHz) Pass or Fail						
2.402	2.35	30	Pass			
2.441	4.18	30	Pass			
2.480	5.14	30	Pass			

CH0

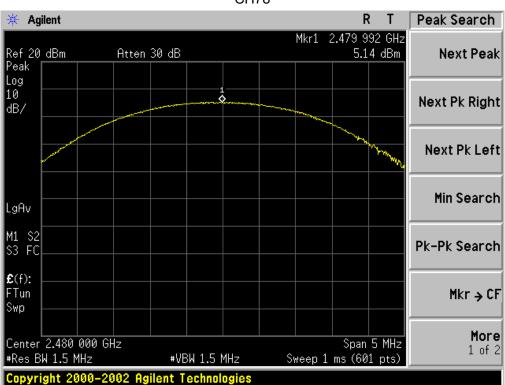


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CH39



CH78



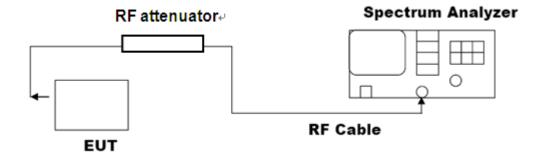
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8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. 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
- 4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



8.3. LIMITS AND MEASUREMENT RESULTS

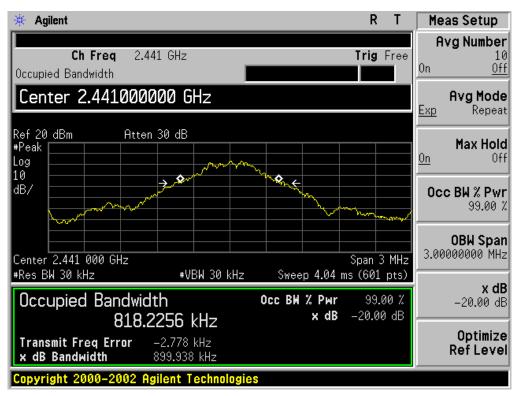
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESUL					
Measurement Result					
Applicable Limits	Test Da	Criteria			
	Low Channel	0.926	PASS		
N/A	Middle Channel	0.900	PASS		
	High Channel	0.986	PASS		

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

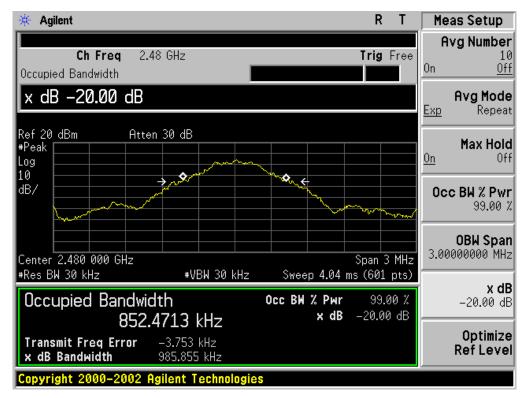


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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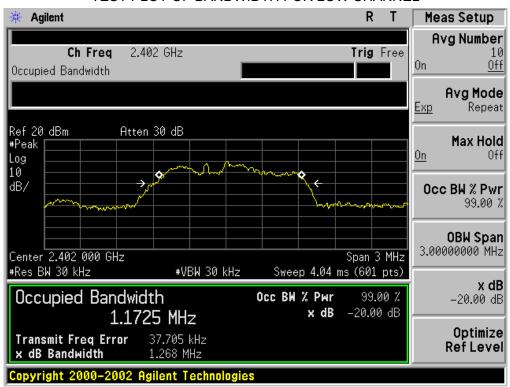
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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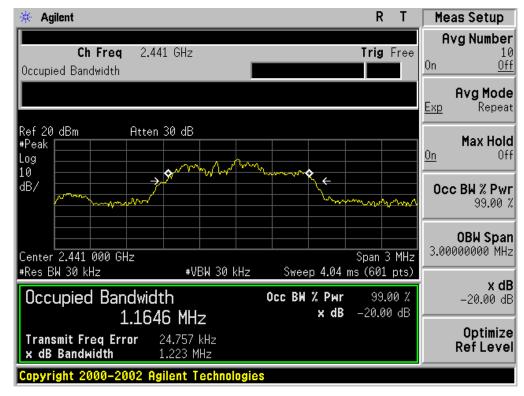
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESUL					
Measurement Result					
Applicable Limits	Test Da	ita (MHz)	Criteria		
	Low Channel	1.268	PASS		
N/A	Middle Channel	1.223	PASS		
	High Channel	1.226	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

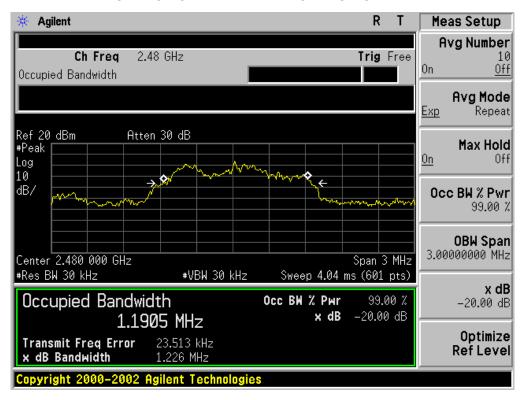


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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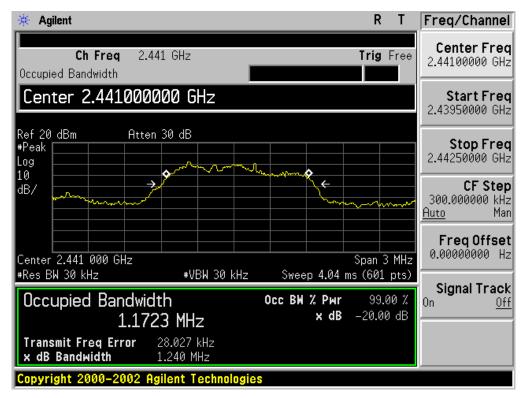
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESUL					
Measurement Result					
Applicable Limits	Test Da	ta (MHz)	Criteria		
	Low Channel	1259	PASS		
N/A	Middle Channel	1.240	PASS		
	High Channel	1.247	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

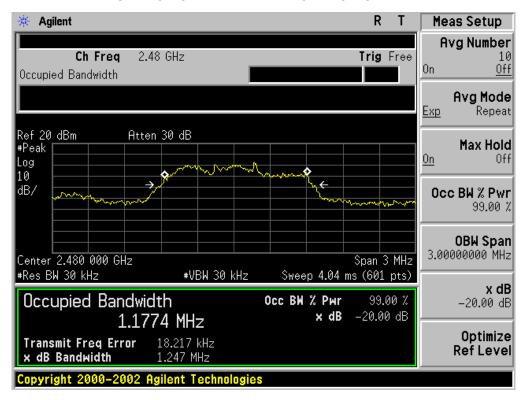


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. 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.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

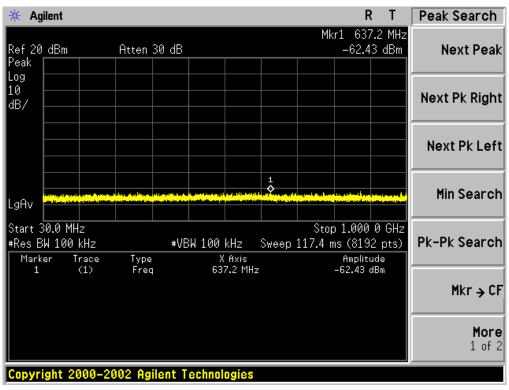
The same as described in section 6

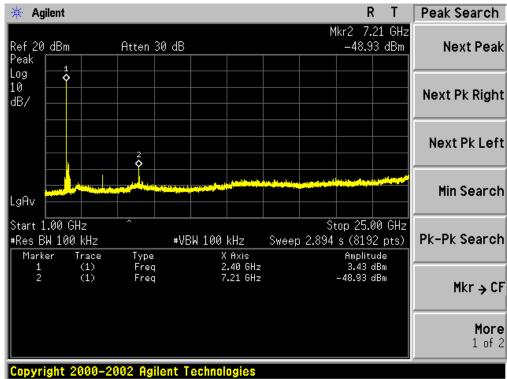
9.4. LIMITS AND MEASUREMENT RESULT

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

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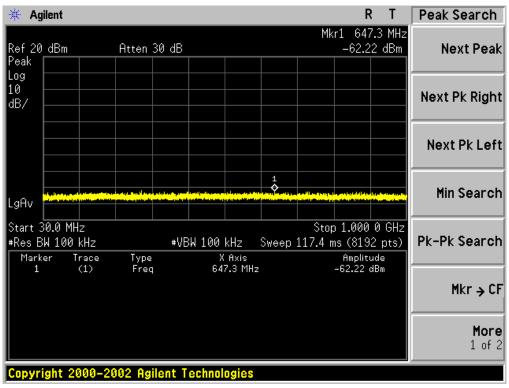
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL

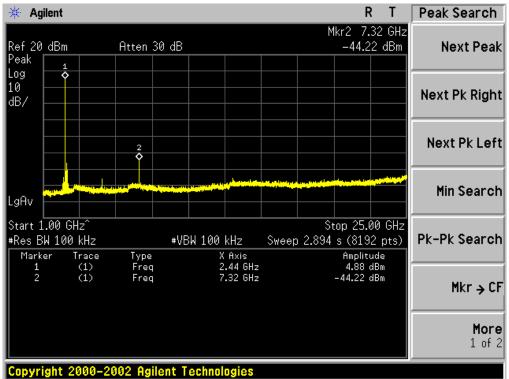




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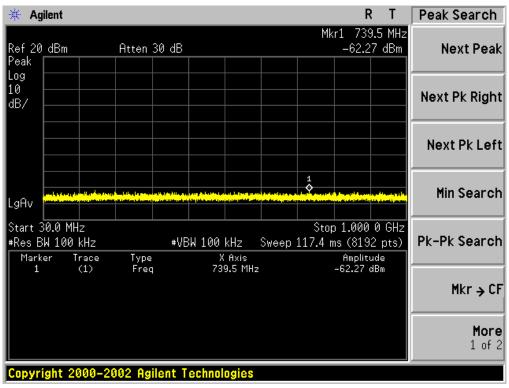
TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

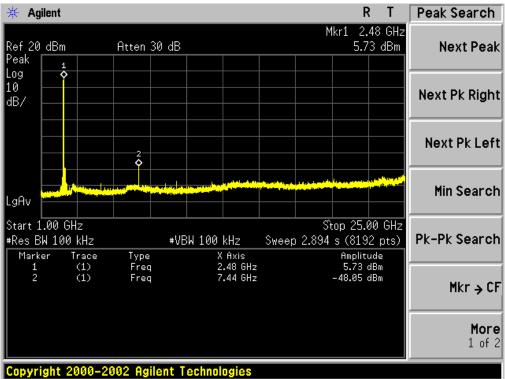




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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL





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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. 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.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. 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.
- 4. 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.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1.5MHz VBW and RBW for peak reading. Then 1.5MHz 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 values.
- 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 for above 1GHz, and 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.
- 10. 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.

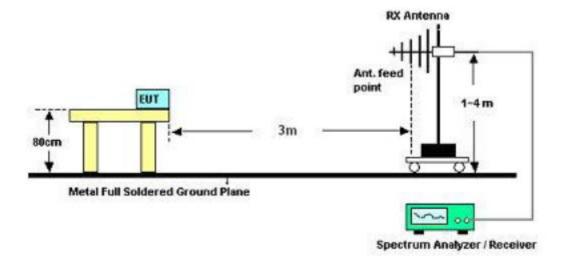
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz
	1.5MHz/1.5MHz for Peak, 1.5MHz/10Hz for Average

Receiver 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

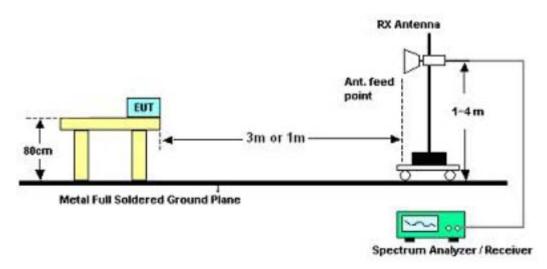
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10.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



10.3. TEST RESULT (Worst Modulation: GFSK)

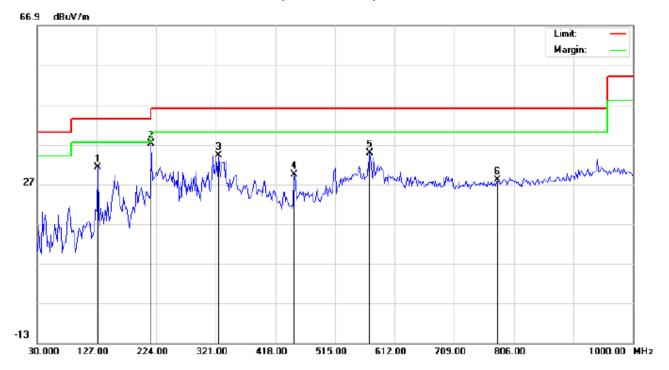
RADIATED EMISSION BELOW 30MHZ

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

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RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Audio On Plus

M/N:MOOB-CHGM-000-001 Mode:Low channel TX

Note:

Polarization: Horizontal Temperature: 23.9
Power: Humidity: 57.2 %

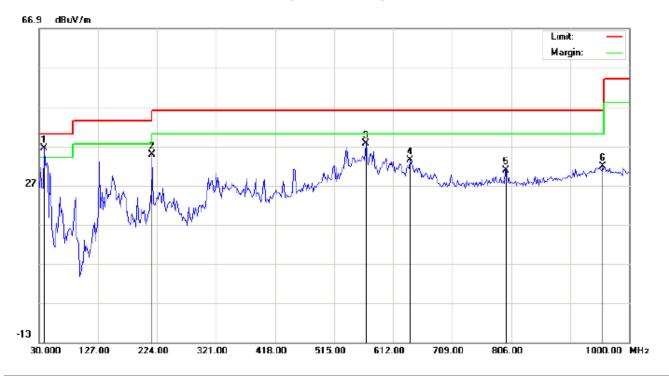
Distance: 3m

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		128.6167	17.83	13.30	31.13	43.50	-12.37	peak			
2	*	215.9167	24.60	12.60	37.20	43.50	-6.30	peak			
3		325.8500	17.14	17.13	34.27	46.00	-11.73	peak			
4		448.7167	8.85	20.55	29.40	46.00	-16.60	peak			
5		571.5833	11.69	23.02	34.71	46.00	-11.29	peak	·	·	
6		780.1332	1.03	27.05	28.08	46.00	-17.92	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Audio On Plus

M/N:MOOB-CHGM-000-001

Mode:Low channel TX

Freq.

MHz

38.0833

215.9167

566.7333

639.4833

797.9167

956.3500

Reading

dBu∀

29.96

24.23

15.04

9.78

3.46

1.82

Factor

dB/m

6.39

10.56

22.56

23.61

27.29

29.94

31.76

Note:

Mk No.

> 1 2

3

4

5

6

Polarization:	Vertical	Temperature: 23.9
Power:		Humidity: 57.2 %

Distance: 3m

Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
dBu∀/m	dBu∀/m	dB		cm	degree	
36.35	40.00	-3.65	peak			
34.79	43.50	-8.71	peak			
37.60	46.00	-8.40	peak			
33.39	46.00	-12.61	peak			
30.75	46.00	-15.25	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

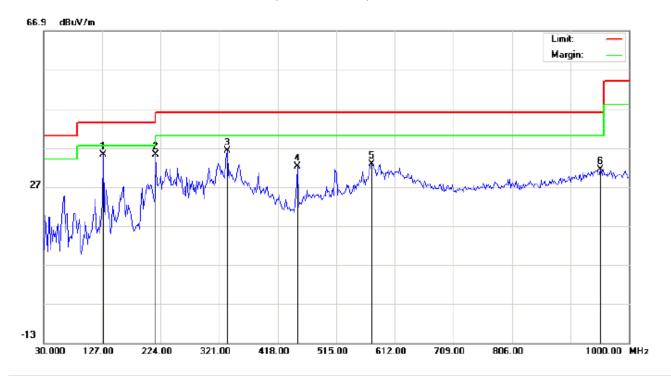
46.00

-14.24

peak

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Audio On Plus

M/N:MOOB-CHGM-000-001 Mode:Middle channel TX

Note:

Polarization: Horizontal Temperature: 23.9
Power: Humidity: 57.2 %

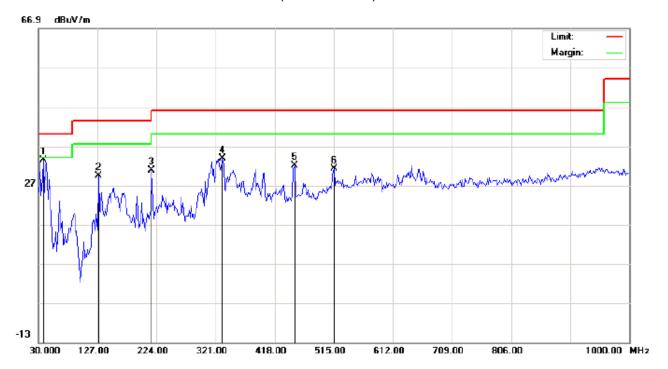
Distance: 3m

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	*	128.6167	22.00	13.30	35.30	43.50	-8.20	peak			
2		215.9167	22.55	12.60	35.15	43.50	-8.35	peak			
3		333.9333	18.49	17.67	36.16	46.00	-9.84	peak			
4		450.3333	11.60	20.59	32.19	46.00	-13.81	peak			
5		573.2000	9.78	23.06	32.84	46.00	-13.16	peak			
6		953.1167	1.43	29.97	31.40	46.00	-14.60	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Audio On Plus

M/N:MOOB-CHGM-000-001 Mode:Middle channel TX

Note:

Polarization: Vertical Temperature: 23.9
Power: Humidity: 57.2 %

Distance: 3m

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	*	38.0833	27.05	6.39	33.44	40.00	-6.56	peak			
2		128.6167	19.00	10.45	29.45	43.50	-14.05	peak			
3		215.9167	20.23	10.56	30.79	43.50	-12.71	peak			
4		332.3167	16.21	17.56	33.77	46.00	-12.23	peak			
5		450.3333	11.49	20.59	32.08	46.00	-13.92	peak	·	·	
6		515.0000	9.63	21.53	31.16	46.00	-14.84	peak	·	·	

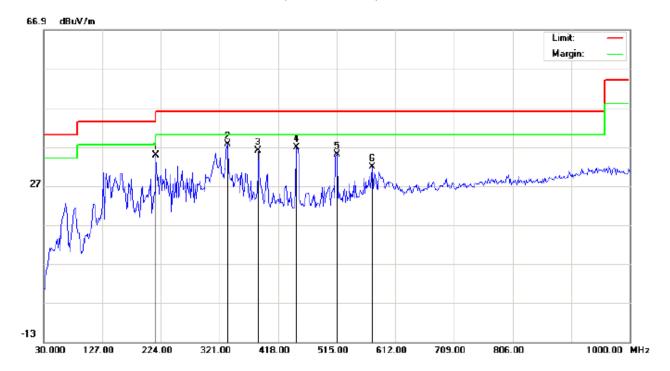
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Audio On Plus

M/N:MOOB-CHGM-000-001 Mode:High channel TX

Note:

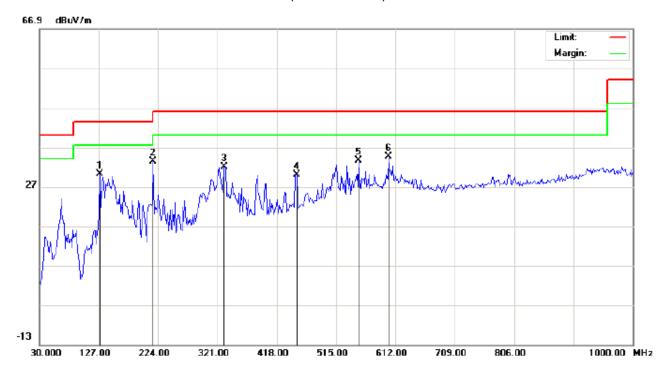
Polarization: Horizontal Temperature: 23.9
Power: Humidity: 57.2 %

Distance: 3m

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		215.9167	22.12	12.60	34.72	43.50	-8.78	peak			
2	*	333.9333	19.85	17.67	37.52	46.00	-8.48	peak			
3		385.6666	17.11	18.98	36.09	46.00	-9.91	peak			
4		448.7167	16.19	20.55	36.74	46.00	-9.26	peak			
5		515.0000	13.38	21.53	34.91	46.00	-11.09	peak			
6		573.2000	8.79	23.06	31.85	46.00	-14.15	peak			

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT:Audio On Plus

M/N:MOOB-CHGM-000-001 Mode:High channel TX

Note:

Polarization:	Vertical	Temperati	ure: 23.9
Power:		Humidity:	57.2 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		128.6167	19.66	10.45	30.11	43.50	-13.39	peak			
2	*	215.9167	22.86	10.56	33.42	43.50	-10.08	peak			
3		332.3167	14.41	17.56	31.97	46.00	-14.03	peak			
4		450.3333	9.38	20.59	29.97	46.00	-16.03	peak			
5		552.1833	11.07	22.49	33.56	46.00	-12.44	peak			
6		600.6833	11.88	22.75	34.63	46.00	-11.37	peak			

RESULT: PASS

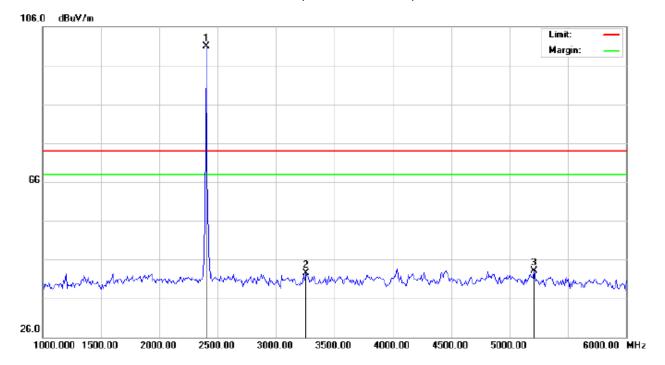
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION ABOVE 1GHZ

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26

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

EUT:Audio On Plus Distance:

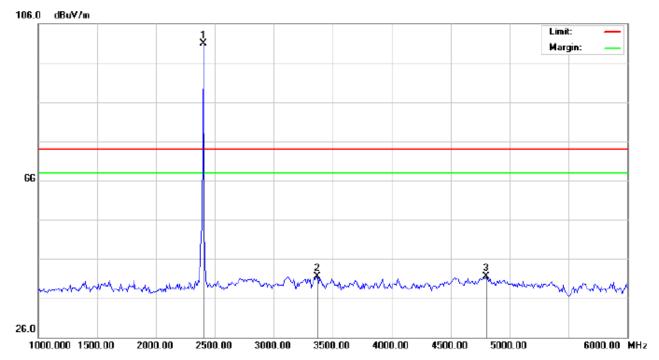
M/N:MOOB-CHGM-000-001 Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	90.61	10.32	100.93	74.00	26.93	peak			
2		3258.333	30.71	11.88	42.59	74.00	-31.41	peak			
3		5208.333	39.06	4.03	43.09	74.00	-30.91	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL -VERTICAL



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

EUT:Audio On Plus Distance:

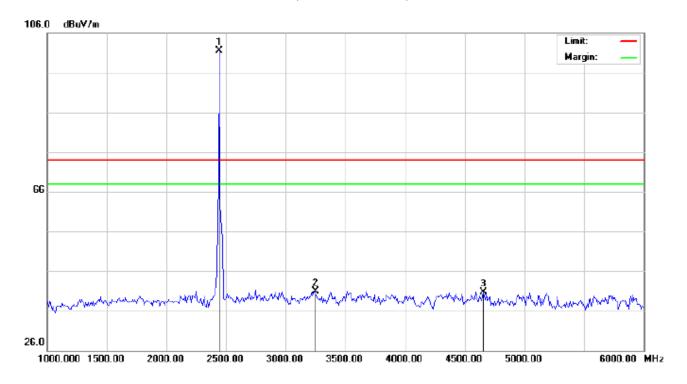
M/N:MOOB-CHGM-000-001 Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	90.67	10.32	100.99	74.00	26.99	peak			
2		3366.667	29.62	11.98	41.60	74.00	-32.40	peak			
3		4800.000	33.77	7.68	41.45	74.00	-32.55	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26

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

EUT:Audio On Plus Distance:

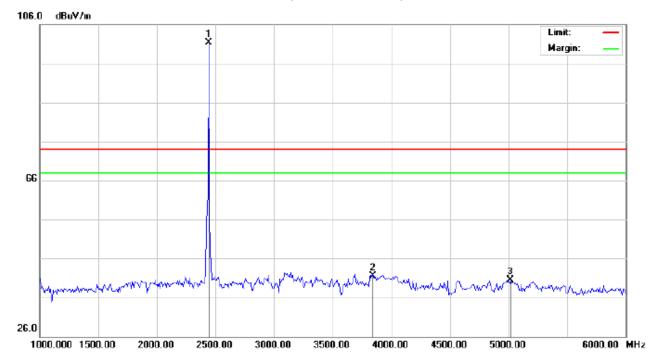
M/N:MOOB-CHGM-000-001 Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2441.000	91.23	10.36	101.59	74.00	27.59	peak			
2		3250.000	29.09	11.87	40.96	74.00	-33.04	peak			
3		4658.333	33.41	7.30	40.71	74.00	-33.29	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) - MIDDLE CHANNEL -VERTICAL



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

EUT:Audio On Plus Distance:

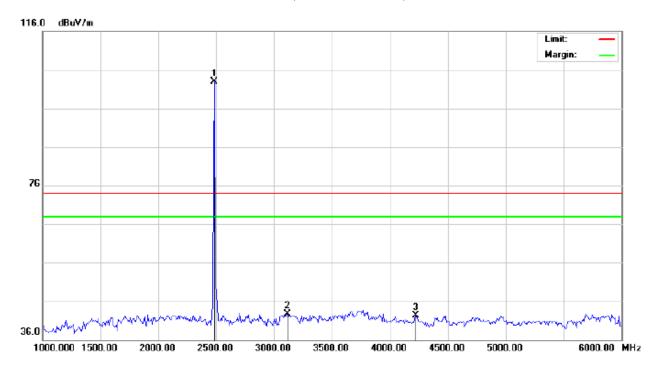
M/N:MOOB-CHGM-000-001 Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2441.000	90.89	10.36	101.25	74.00	27.25	peak			
2		3841.667	27.36	14.21	41.57	74.00	-32.43	peak			
3		5016.667	32.56	7.87	40.43	74.00	-33.57	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL-HORIZONTAL



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

EUT:Audio On Plus Distance:

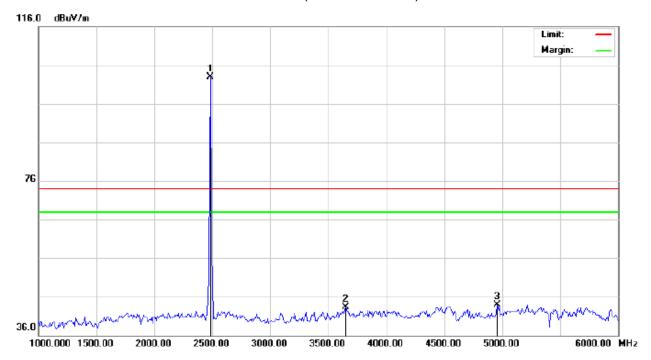
M/N:MOOB-CHGM-000-001 Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	92.43	10.41	102.84	74.00	28.84	peak			
2		3116.667	31.05	11.75	42.80	74.00	-31.20	peak			
3		4225.000	30.77	11.45	42.22	74.00	-31.78	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL -VERTICAL



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

EUT:Audio On Plus Distance:

M/N:MOOB-CHGM-000-001 Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	92.47	10.41	102.88	74.00	28.88	peak			
2		3650.000	30.34	13.03	43.37	74.00	-30.63	peak			
3		4958.333	35.75	8.09	43.84	74.00	-30.16	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor+ Cable loss-Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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11. BAND EDGE EMISSION

11.1. 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>=100kHz, VBW>=3*RBW, Center frequency =Operation frequency
- 3. The band edges was measured and recorded.

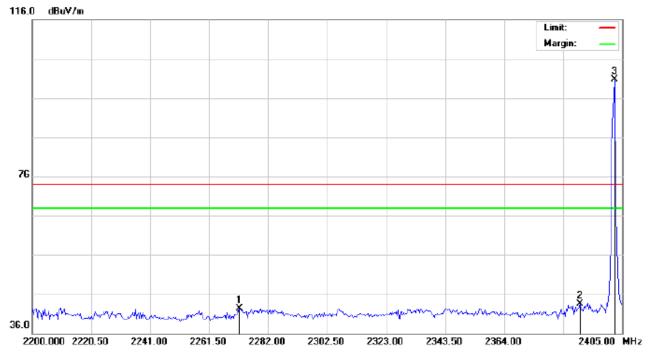
11.2. TEST SET-UP

Radiated same as 10.2

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11.3. TEST RESULT (Worst Modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Horizontal



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

EUT:Audio On Plus Distance:

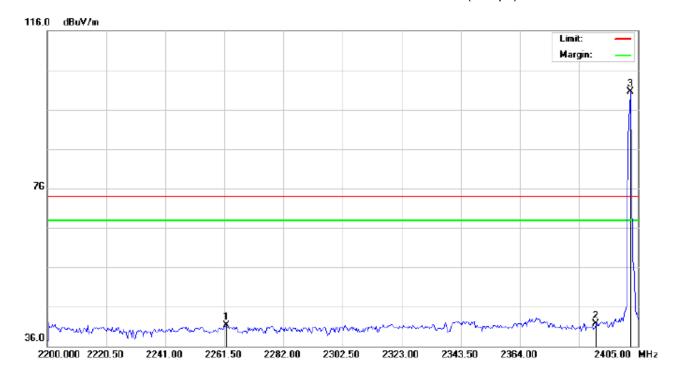
M/N:MOOB-CHGM-000-001 Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2272.092	32.12	10.18	42.30	74.00	-31.70	peak			
2		2390.000	33.12	10.31	43.43	74.00	-30.57	peak			
3	*	2402.000	90.41	10.32	100.73	74.00	26.73	peak			

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Vertical



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

EUT:Audio On Plus Distance:

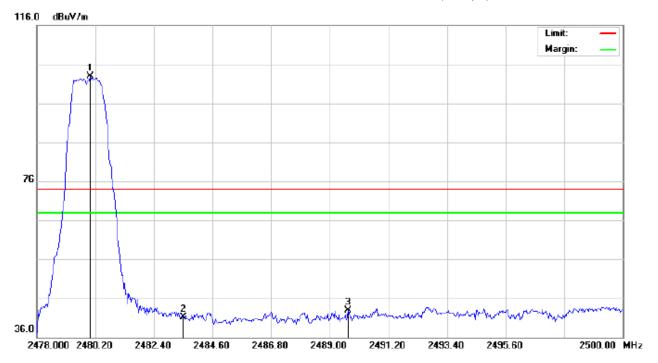
M/N:MOOB-CHGM-000-001 Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2262.183	31.20	10.17	41.37	74.00	-32.63	peak			
2		2390.000	31.35	10.31	41.66	74.00	-32.34	peak			
3	*	2402.000	90.26	10.32	100.58	74.00	26.58	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Horizontal



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

EUT:Audio On Plus Distance:

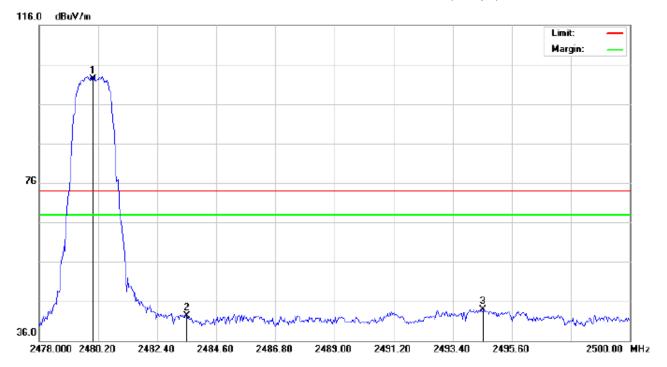
M/N:MOOB-CHGM-000-001 Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	92.46	10.41	102.87	74.00	28.87	peak			
2		2483.500	30.75	10.41	41.16	74.00	-32.84	peak			
3		2489.697	32.46	10.42	42.88	74.00	-31.12	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Vertical



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

EUT:Audio On Plus

Distance:

M/N:MOOB-CHGM-000-001 Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	91.85	10.41	102.26	74.00	28.26	peak			
2		2483.500	31.87	10.41	42.28	74.00	-31.72	peak			
3		2494.537	33.45	10.42	43.87	74.00	-30.13	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. Hopping off and Hopping on have been tested and only worst case recorded

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12. NUMBER OF HOPPING FREQUENCY

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 the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=RBW.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

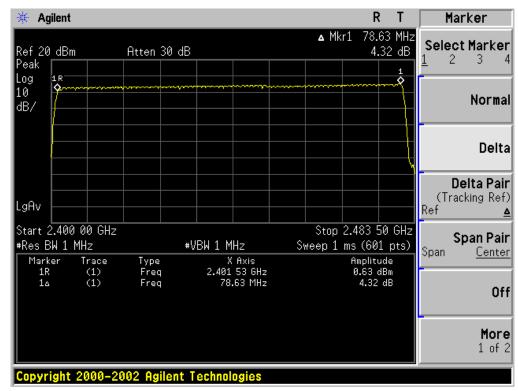
12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. 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



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13. TIME OF OCCUPANCY (DWELL TIME)

13.1. 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 Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

13.4. LIMITS AND MEASUREMENT RESULT

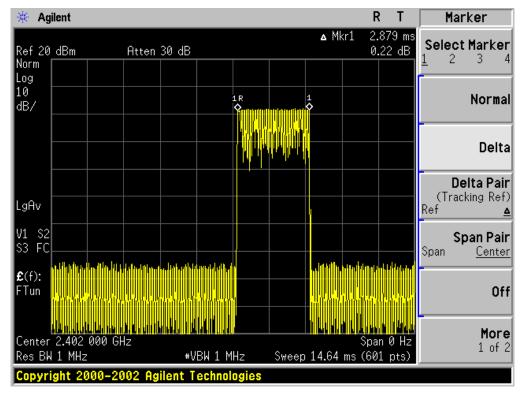
The Worst Case (3Mbps)

Channel	Time of Pulse for DH5 (ms)	Period Time	Sweep Time (ms)	Limit (ms)
	(IIIS)	(s)	(1113)	(1113)
Low	2.879	31.6	307.09	400
Middle	2.904	31.6	309.76	400
High	2.928	31.6	312.32	400

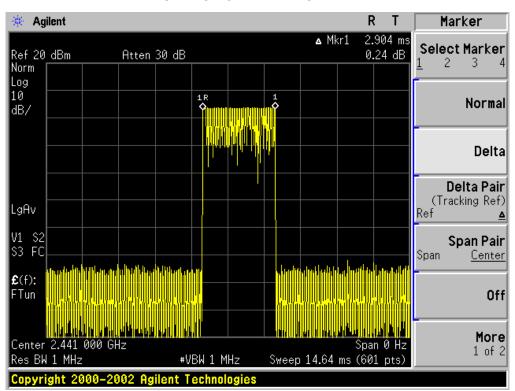
Low Channel Time 2.879*(1600/6)/79*31.6=307.09ms Middle Channel Time 2.904*(1600/6)/79*31.6=309.76ms High Channel Time 2.928*(1600/6)/79*31.6=312.32ms

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TEST PLOT OF LOW CHANNEL

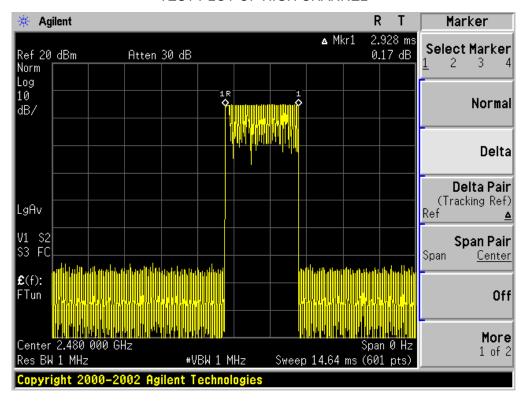


TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH CHANNEL



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14. FREQUENCY SEPARATION

14.1. 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 Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

14.3. MEASUREMENT EQUIPMENT USED

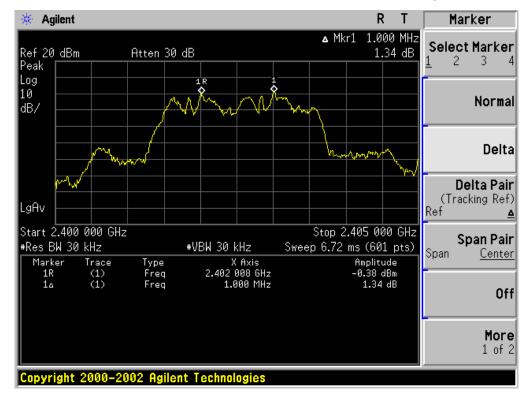
The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

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

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TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)



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15. FCC LINE CONDUCTED EMISSION TEST

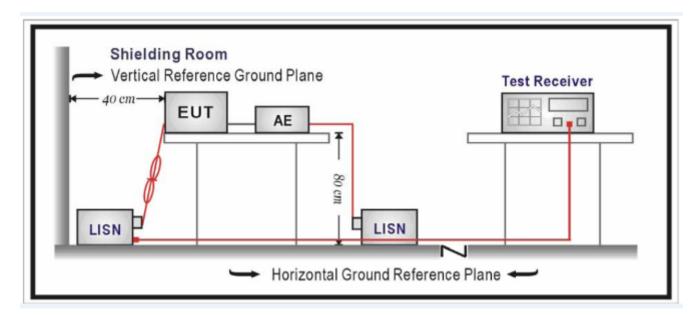
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

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.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When 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 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

- 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. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter which received 120V/60Hzpower by a LISN..
- 6. The 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.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP





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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



VIEW OF EUT(Port)



OPEN VIEW OF EUT-1



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OPEN VIEW OF EUT-2

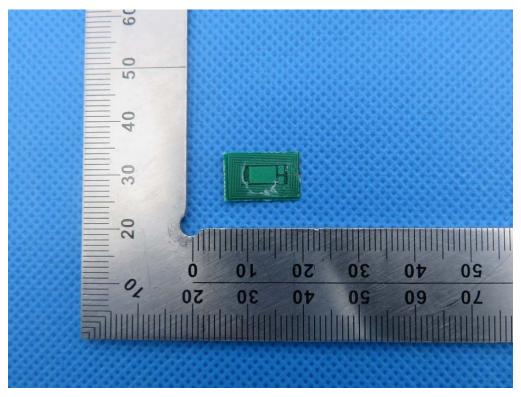


OPEN VIEW OF EUT-3

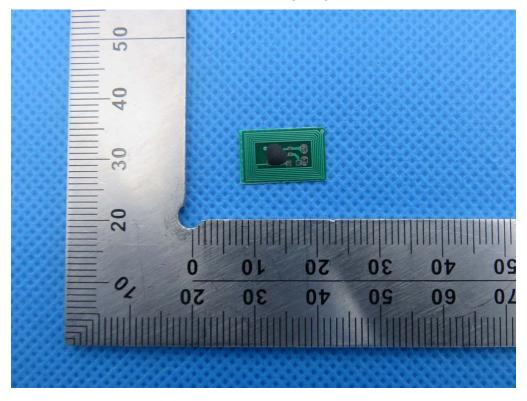


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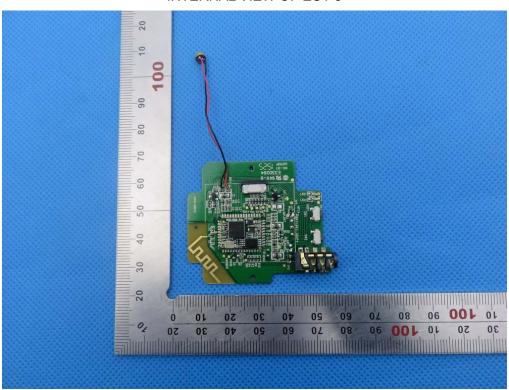
INTERNAL VIEW OF EUT-1



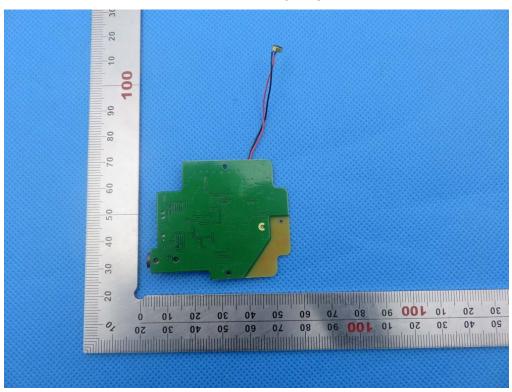
INTERNAL VIEW OF EUT-2



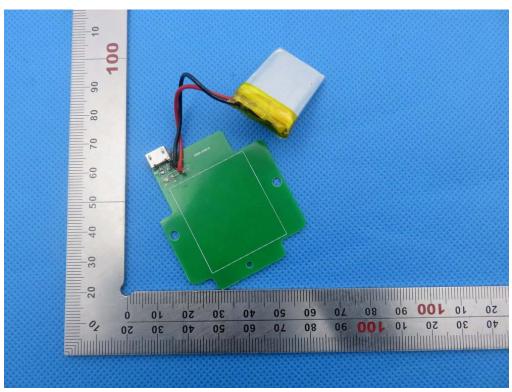
INTERNAL VIEW OF EUT-3



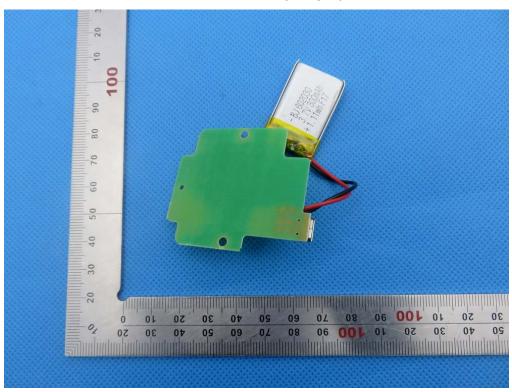
INTERNAL VIEW OF EUT-4



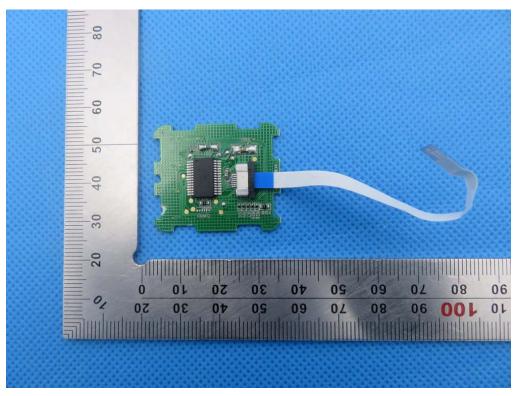
INTERNAL VIEW OF EUT-5



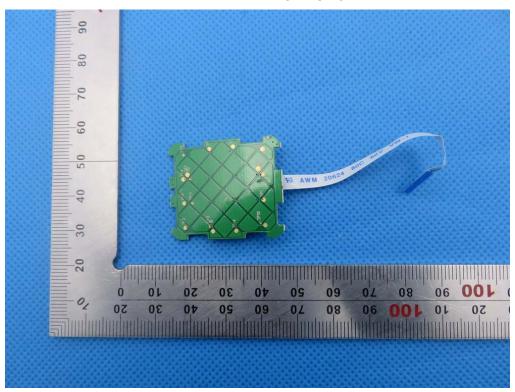
INTERNAL VIEW OF EUT-6



INTERNAL VIEW OF EUT-7



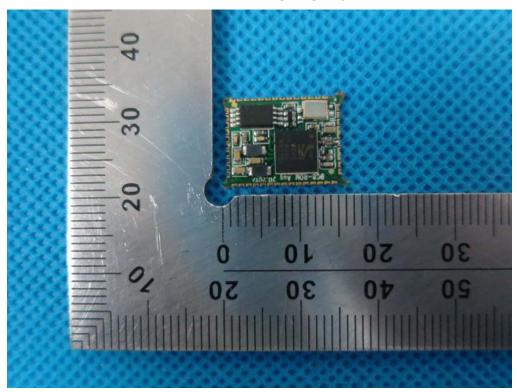
INTERNAL VIEW OF EUT-8



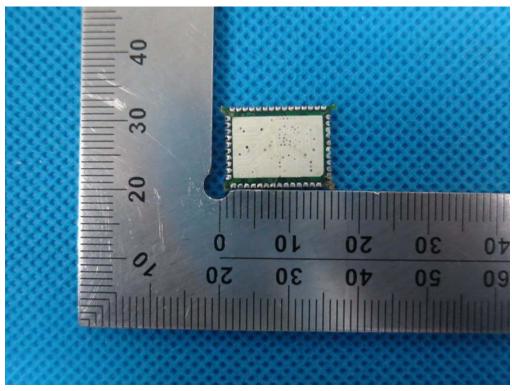




INTERNAL VIEW OF EUT-10



INTERNAL VIEW OF EUT-11



----END OF REPORT----