



FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.

2.1 CH Bluetooth sound plate

Model No. : DSB500DT

FCC ID: ESX-DSB500DT

Prepared for : Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
Dewei Industrial Garden, Shibe Industrial Road, Dashi
Town, Panyu Borough, Guangzhou City, Guangdong
Province, China

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F15141
Date of Test : May.08~13, 2015
Date of Report : May.21, 2015

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	1-1
1.1. Description of Standards and Results	1-1
2. GENERAL INFORMATION	2-1
2.1. Description of Device (EUT)	2-1
2.2. Tested Supporting System Details	2-2
2.3. Block Diagram of connection between EUT and simulators	2-2
2.4. Test information	2-2
2.5. Test Facility	2-3
2.6. Measurement Uncertainty (95% confidence levels, k=2)	2-3
3. POWER LINE CONDUCTED EMISSION MEASUREMENT	3-1
3.1. Test Equipments	3-1
3.2. Block Diagram of Test Setup	3-1
3.3. Power Line Conducted Emission Test Limits	3-1
3.4. Configuration of EUT on Test	3-2
3.5. Operating Condition of EUT	3-2
3.6. Test Procedure	3-2
3.7. Power Line Conducted Emission Test Results	3-2
4. RADIATED EMISSION MEASUREMENT	4-1
4.1. Test Equipment	4-1
4.2. Block Diagram of Test Setup	4-2
4.3. Radiated Emission Limit Standard:	4-3
4.4. EUT Configuration on Test	4-3
4.5. Operating Condition of EUT	4-3
4.6. Test Procedure	4-3
4.7. Radiated Emission Test Results	4-4
5. CONDUCTED SPURIOUS EMISSIONS	5-1
5.1. Test Equipment	5-1
5.2. Limit	5-1
5.3. Test Procedure	5-1
5.4. Test result	5-1
6. 6dB BANDWIDTH TEST	6-1
6.1. Test Equipment	6-1
6.2. Limit	6-1
6.3. Test Procedure	6-1
6.4. Test Results	6-1
7. MAXIMUM PEAK OUTPUT POWER TEST	7-1
7.1. Test Equipment	7-1
7.2. Limit	7-1
7.3. Test Procedure	7-1
7.4. Test Results	7-1
8. BAND EDGE COMPLIANCE TEST	8-1
8.1. Test Equipment	8-1
8.2. Limit	8-1
8.3. Test Produce	8-1
8.4. Test Results	8-1
9. POWER SPECTRAL DENSITY TEST	9-1

9.1.	Test Equipment	9-1
9.2.	Limit.....	9-1
9.3.	Test Procedure.....	9-1
9.4.	Test Results.....	9-1
10.	ANTENNA REQUIREMENT	10-1
10.1.	STANDARD APPLICABLE.....	10-1
10.2.	ANTENNA CONNECTED CONSTRUCTION	10-1
11.	DEVIATION TO TEST SPECIFICATIONS.....	11-1
12.	HOTOGRAPH OF TEST	12-1
12.1.	Photos of Power Line Conducted Emission Test.....	12-1
12.2.	Photos of Radiated Emission Test.....	12-2
13.	PHOTOGRAPH OF EUT	13-1

TEST REPORT CERTIFICATION

Applicant : Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
 Manufacturer : Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
 EUT Description : 2.1 CH Bluetooth sound plate
 FCC ID : ESX-DSB500DT
 (A) Model No. : DSB500DT
 (B) Power Supply : N/A
 (C) Test Voltage : AC 120V/60Hz

Tested for comply with:

FCC Rules and Regulations Part 15 Subpart C: 2014
 Test procedure used: ANSI C63.10:2009;
 KDB558074 D01 v03r02

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : May.08~13, 2015 Report of date: May.21, 2015

Prepared by : Cindy Zhu Reviewed by : [Signature]
 Cindy Zhu / Assistant Sunny Lu / Assistant Manager

信華科技(深圳)有限公司
 Audix Technology (Shenzhen) Co., Ltd.
 EMC 部門報告專用章
 Stamp only for EMC Dept. Report
 Signature: David Jin
 David Jin / Manager

Approved & Authorized Signer :

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 :2009 KDB558074 D01 v03r02	PASS
Radiated Emission Test	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2009 KDB558074 D01 v03r02	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009 KDB558074 D01 v03r02	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009 KDB558074 D01 v03r02	PASS
6dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 :2009 KDB558074 D01 v03r02	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1) ANSI C63.10 :2009 KDB558074 D01 v03r02	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) ANSI C63.10 :2009 KDB558074 D01 v03r02	PASS
Power Spectral Density Test	FCC Part 15: 15.247(d) ANSI C63.10 :2009 KDB558074 D01 v03r02	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name : 2.1 CH Bluetooth sound plate

Model Number : DSB500DT

FCC ID : ESX-DSB500DT

Radio : Bluetooth V3.0+EDR
: Bluetooth V4.0

Operation Frequency : 2402-2480MHz

Modulation : GFSK, $\pi/4$ DQPSK,8-DPSK
Technology : Bluetooth V4.0:GFSK

Antenna Assembly : Antenna Type: Integral Antenna
Gain : Bluetooth: 2dBi

Applicant : Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
Dewei Industrial Garden, Shibe Industrial Road, Dashi Town,
Panyu Borough,Guangzhou City, Guangdong Province, China

Manufacturer : Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
Dewei Industrial Garden, Shibe Industrial Road, Dashi Town,
Panyu Borough,Guangzhou City, Guangdong Province, China

AV Cable : Unshielded, Undetectable 1.2m

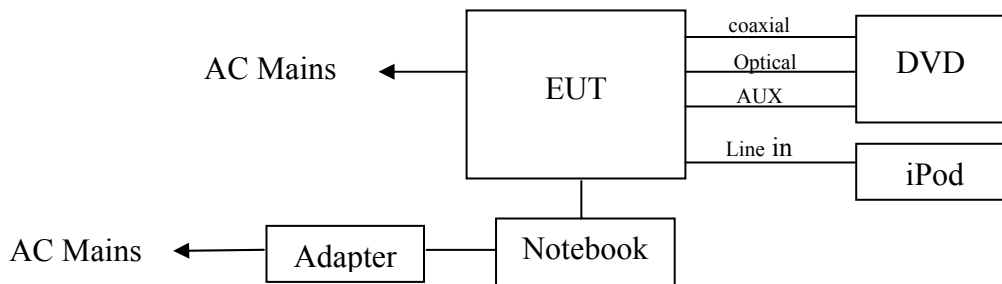
Date of Test : May.08~13, 2015

Date of Receipt : May.06 2015

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Notebook	N/A	DELL	PP09S	N/A	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID:R41108
		Power Cable: Unshielded, Detectable, 1.8m Power Adapter:Manufacturer:DELL;Model:LA65NS1-00;				
2.	DVD Player	ACS-EMC-DVD01	DENON	DVD-3910	4098400342E	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID:R33057
		Data Cable*3: Shielded, Detachable, 1.8m Power Cable: Unshielded, Detachable, 1.8m				
3.	Ipod	ACS-EMC-IP01	APPLE	A1199	YM706MLDVQ5	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R33057
		Data Cable: Shielded, Detachable, 1.0m				

2.3. Block Diagram of connection between EUT and simulators



(EUT: 2.1 CH Bluetooth sound plate)

2.4. Test information

A Special Test Software was used to control EUT work in Continuous TX mode, and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	3	Low :CH 0	2402
	3	Middle: CH19	2440
	3	High: CH39	2480

2.5. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 90454 Valid Date: Dec.30,2017
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Oct.31, 2015
EMC Lab.	:	Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.15, 2016
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2016

2.6. Measurement Uncertainty (95% confidence levels, k=2)

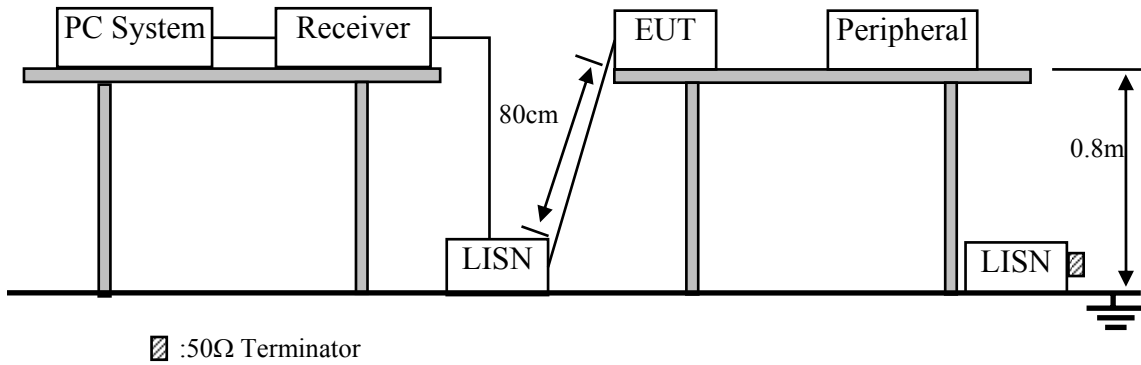
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.1dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.3 dB(30~200MHz, Polarize: H)
	3.3 dB(30~200MHz, Polarize: V)
	3.5 dB(200M~1GHz, Polarize: H)
	3.4 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	5.0 dB (1~6GHz, Distance: 3m)
	5.0 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6 dB
Uncertainty for Conduction Spurious emission test	2.0 dB
Uncertainty for Output power test	0.8 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.1 %
Uncertainty for test site temperature and humidity	0.6
	3%

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,15	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.29,14	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.29,14	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	Apr.28,15	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.28,15	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.28,15	1 Year
7.	RF Cable	MIYAZAKI	RG-55/U	No.1	Apr.28,15	1Year
8.	Coaxial Switch	Anritsu	MP59B	6200298346	Apr.28,15	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Oct.29,14	1 Year
10.	TV Transmitter	ROHDE&SCHWARZ	SFQ	100521	Apr.28,15	1 Year
11.	Signal Generator	HP	8648A	3625U00573	Apr.28,15	1 Year
12.	Pattern Generator	Philips	PM5418	LO625020	Apr.28,15	1 Year
13.	Test Software	AUDIX	E3	6.2009-6-3(n)	N/A	N/A

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1.2.1 CH Bluetooth sound plate (EUT)

Model Number : DSB500DT
Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

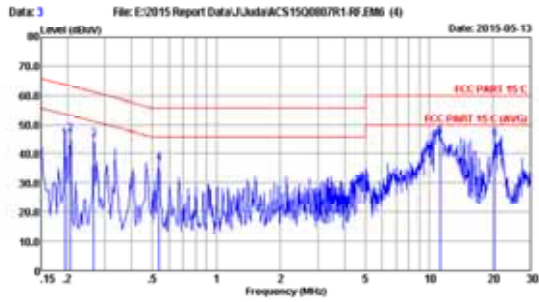
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 9kHz and the QP detection was used.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

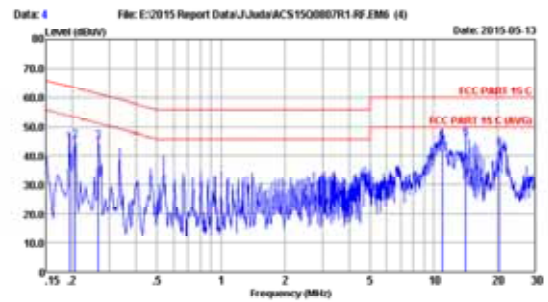
PASS. (All emissions not reported below are too low against the prescribed limits.)



Site no :11# Conduction Data No :3
 Dir./Lim :2014 EMI-25 LINE
 Limit :FCC PART 15 C
 Env./Ino. :25.4°C/50% Engineer :Kevin_He
 EUT :2.1 CH Bluetooth Sound Plate
 Power Rating :1W/400mW
 Test Mode :TX Mode
 M/N:DSB500DT

No	Freq (MHz)	LISM Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.194	0.13	9.90	35.04	45.07	63.84	18.77	QP
2	0.206	0.13	9.90	36.86	46.89	63.36	16.47	QP
3	0.266	0.13	9.90	35.23	45.26	61.25	15.99	QP
4	0.838	0.15	9.90	36.82	46.87	66.00	19.13	QP
5	11.257	0.32	10.02	35.81	46.15	60.00	13.85	QP
6	20.377	0.68	10.11	34.69	45.48	60.00	14.52	QP

Remarks: 1.Emission Level=LISM Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :11# Conduction Data No :4
 Dir./Lim :2014 EMI-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ino. :25.4°C/50% Engineer :Kevin_He
 EUT :2.1 CH Bluetooth Sound Plate
 Power Rating :1W/400mW
 Test Mode :TX Mode
 M/N:DSB500DT

No	Freq (MHz)	LISM Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.194	0.13	9.90	34.54	44.57	63.84	19.27	QP
2	0.206	0.13	9.90	35.16	45.49	63.36	17.87	QP
3	0.266	0.14	9.90	35.23	45.27	61.25	15.98	QP
4	10.943	0.19	10.02	36.47	46.87	60.00	14.13	QP
5	14.138	0.53	10.05	35.54	46.12	60.00	13.88	QP
6	20.377	0.74	10.11	32.08	42.95	60.00	17.05	QP

Remarks: 1.Emission Level=LISM Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

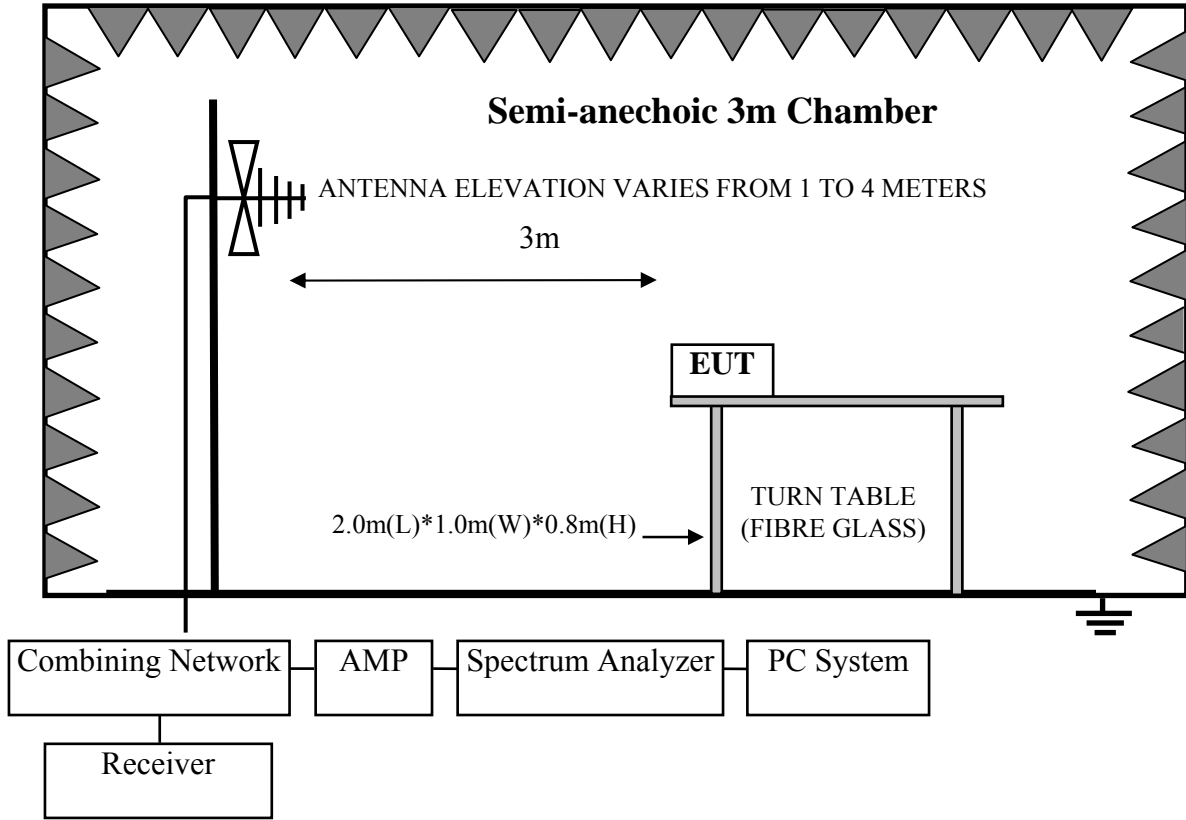
Frequency rang: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23, 14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr. 28,15	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 28,15	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr. 28,15	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun. 18, 14	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Apr. 28,15	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6200313662	Apr. 28,15	1 Year

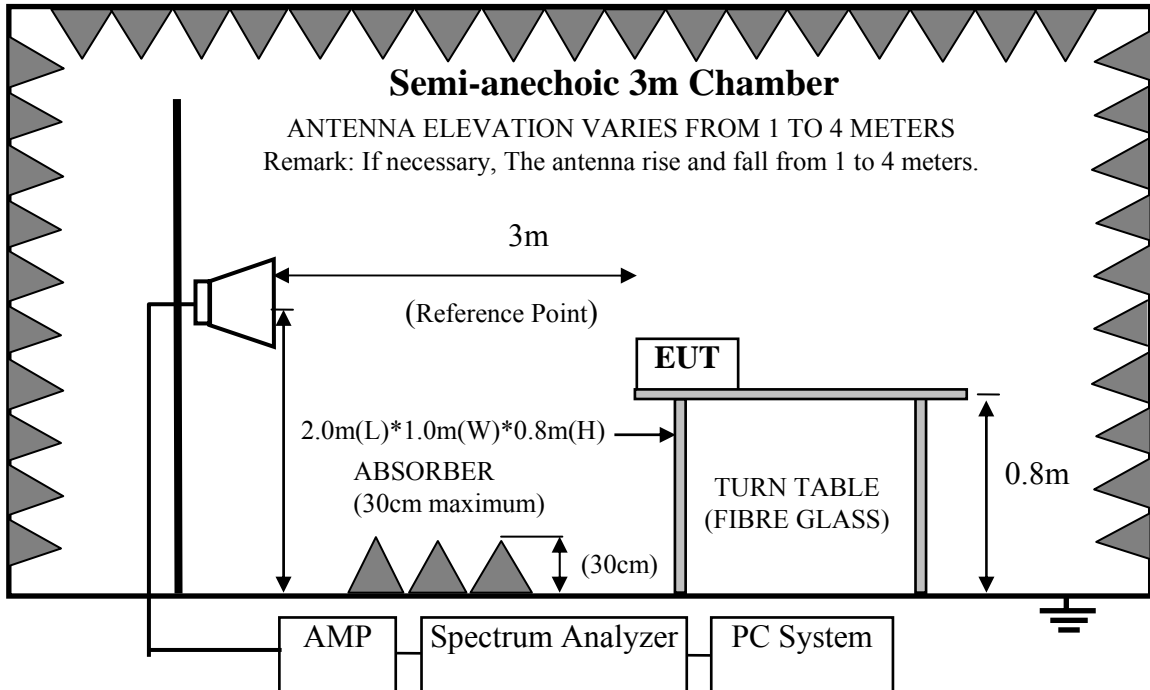
Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.02, 14	1 Year
2.	Spectrum Analyzer	Agilent	E4407B	MY41440292	Apr. 28,15	1 Year
3.	Horn Antenna	ETS	3115	9607-4877	Sep.20, 14	1 Year
4.	Amplifier	Agilent	8449B	3008A00863	Apr. 28,15	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,15	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,15	1 Year
7.	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year

4.2. Block Diagram of Test Setup
For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit Standard:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

- Remark :
- (1) Emission level dBμV = 20 log Emission level μV/m
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. 2.1 CH Bluetooth sound plate (EUT)

Model Number : DSB500DT
 Serial Number : N/A

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 4.5.2. Turned on the power of all equipment.
- 4.5.3. Let EUT work in Tx mode.

4.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz.

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

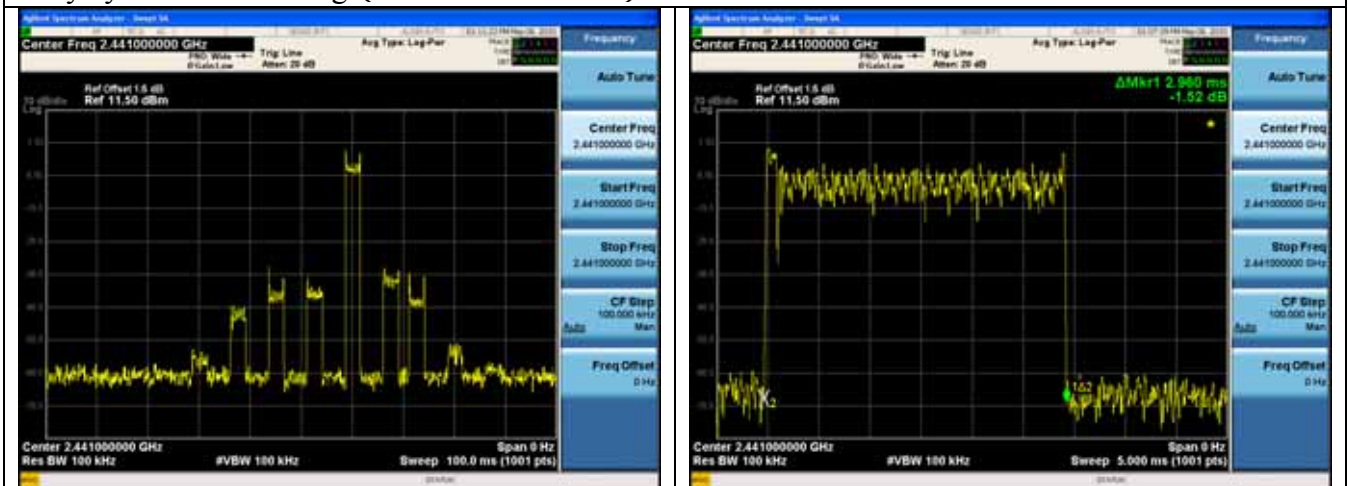
The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7. Radiated Emission Test Results
PASS.

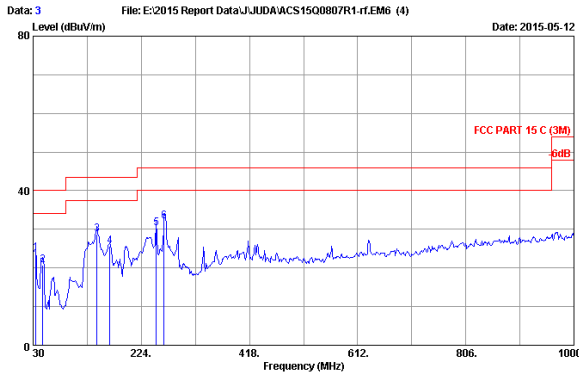
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is -30.574 dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit

Duty cycle factor = $20\log (\text{Dwell time}/100\text{ms}) = -30.574$



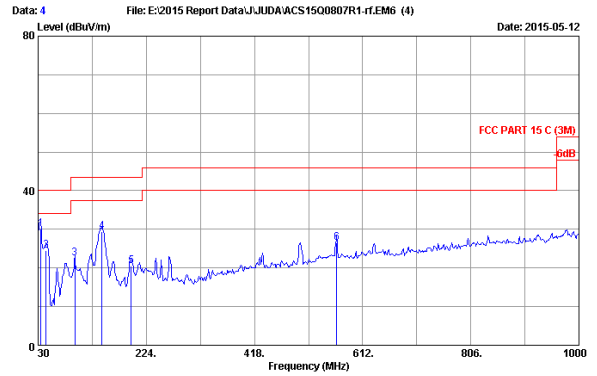
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : 2.1 CH Bluetooth Sound Plate
 Power rating : AC 120V/60Hz
 Test Mode : TX mode
 M/N:DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.85	16.99	0.65	6.17	23.75	40.00	16.25	QP
2	47.96	9.69	0.75	10.26	20.70	40.00	19.30	QP
3	144.46	11.58	1.50	15.73	28.81	43.50	14.69	QP
4	167.74	10.23	1.66	13.70	25.59	43.50	17.91	QP
5	251.16	13.06	2.08	15.10	30.24	46.00	15.76	QP
6	264.74	13.93	2.14	15.98	32.05	46.00	13.95	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

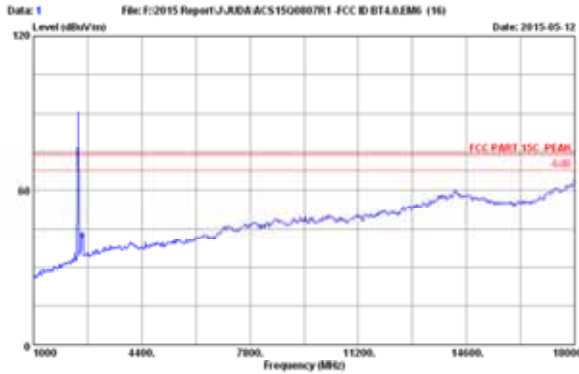


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : 2.1 CH Bluetooth Sound Plate
 Power rating : AC 120V/60Hz
 Test Mode : TX mode
 M/N:DSB500DT

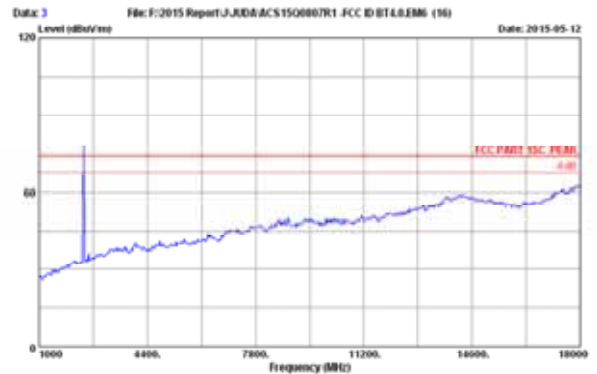
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.85	16.99	0.65	12.50	30.08	40.00	9.92	QP
2	44.55	10.85	0.73	12.90	24.48	40.00	15.52	QP
3	95.96	10.59	1.09	10.77	22.45	43.50	21.05	QP
4	144.46	11.58	1.50	16.39	29.47	43.50	14.03	QP
5	196.84	10.08	1.83	8.52	20.43	43.50	23.07	QP
6	565.44	19.11	3.55	3.91	26.57	46.00	19.43	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

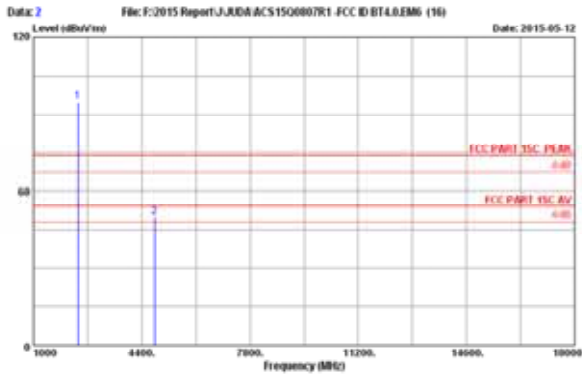
Frequency:1GHz~18GHz GFSK 2402MHz



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2402MHz
 M/N : DSB500DT



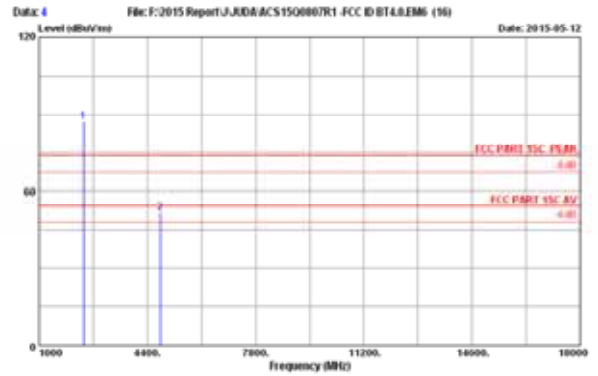
Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2402MHz
 M/N : DSB500DT



Site no. : 3m Chamber Data no. : 2
 Dir. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2402MHz
 M/N : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Error (dB)	Reading (dBu)	Emission Level (dBu/m)	Limits (dBu/m)	Margin (dB)	Remark
1	2402.000	20.18	5.00	35.70	96.63	94.91	74.00	-20.91	Peak
2	4804.000	32.05	0.56	35.70	44.07	49.70	74.00	24.22	Peak

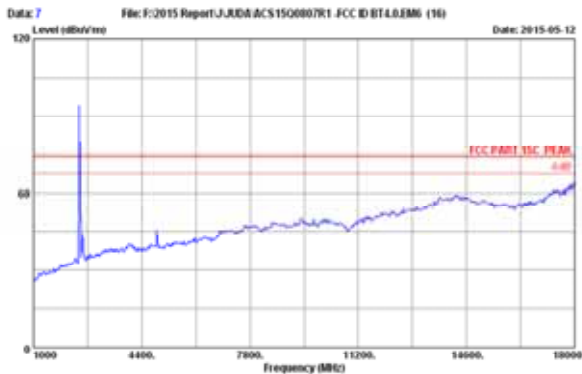
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dir. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2402MHz
 M/N : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Error (dB)	Reading (dBu)	Emission Level (dBu/m)	Limits (dBu/m)	Margin (dB)	Remark
1	2402.000	20.18	5.00	35.70	88.92	87.20	74.00	-13.20	Peak
2	4804.000	32.05	0.56	35.70	45.70	51.41	74.00	22.59	Peak

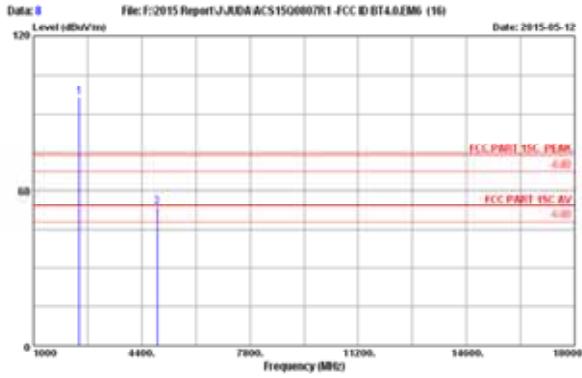
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dir. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2440MHz
 M/N : DSB500DT



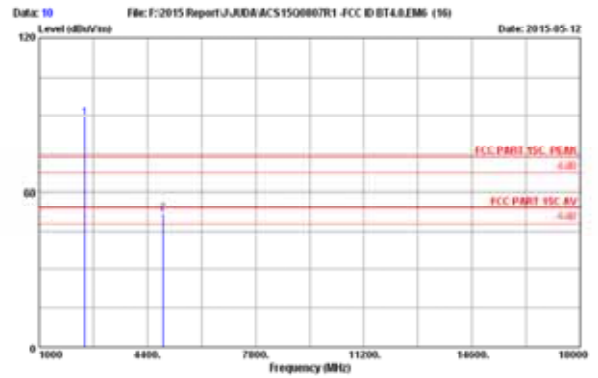
Site no. : 3m Chamber Data no. : 9
 Dir. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2440MHz
 M/N : DSB500DT



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GPSK 2400MHz
 N/W : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.000	28.27	5.86	35.70	97.74	96.17	74.00	-22.17	Peak
2	4800.000	32.98	6.64	35.70	47.93	53.85	74.00	20.15	Peak

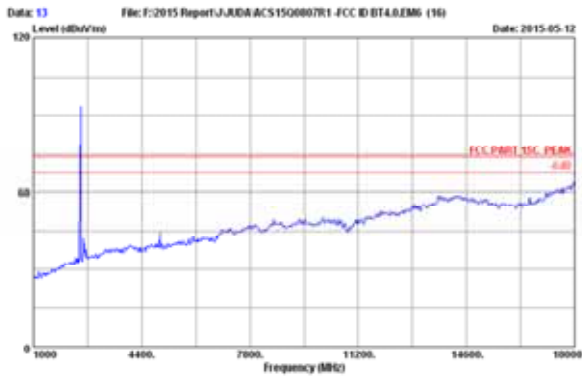
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



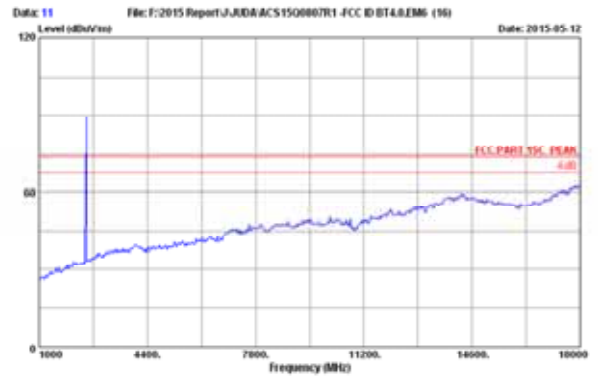
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GPSK 2400MHz
 N/W : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.000	28.27	5.86	35.70	90.88	89.31	74.00	-15.31	Peak
2	4800.000	32.98	6.64	35.70	45.97	51.79	74.00	22.21	Peak

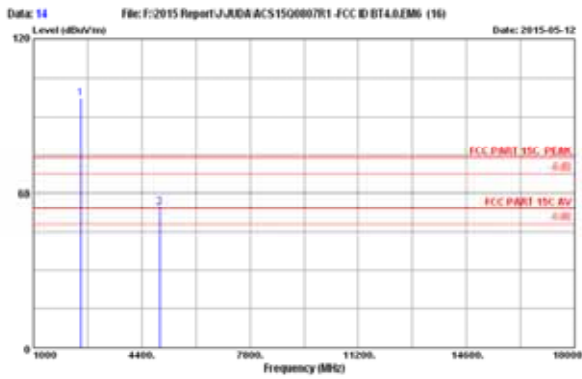
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GPSK 2400MHz
 N/W : DSB500DT



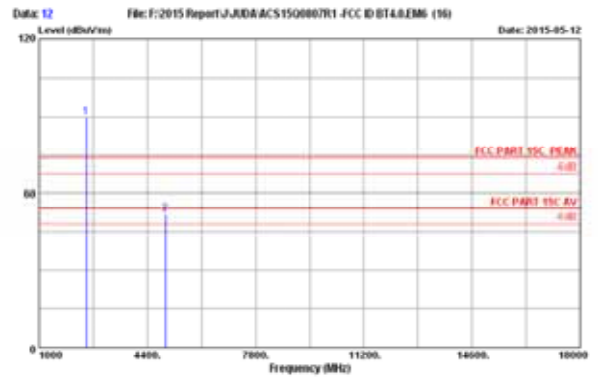
Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GPSK 2400MHz
 N/W : DSB500DT



Site no. : 3m Chamber Data no. : 14
 Dir. / Ant. : 2014 3115 (4500) Ant. pol. : HORIZONTAL
 LIMIT : FCC PART 15C PEAK
 Env. / Ine. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GPSK 2400MHz
 N/A : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2400.000	20.36	5.91	35.70	98.35	96.92	74.00	-22.92	Peak
2	4960.000	33.13	0.72	35.70	48.27	54.42	74.00	19.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 12
 Dir. / Ant. : 2014 3115 (4500) Ant. pol. : VERTICAL
 LIMIT : FCC PART 15C PEAK
 Env. / Ine. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GPSK 2400MHz
 N/A : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2400.000	20.36	5.91	35.70	91.31	89.00	74.00	-15.00	Peak
2	4960.000	33.13	0.72	35.70	45.66	51.01	74.00	22.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Polarization	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit (dBuV/m)	Conclusion
4960	HORIZONTAL	54.42	-30.574	23.846	54	Pass

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,15	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,15	1 Year

5.2. Limit

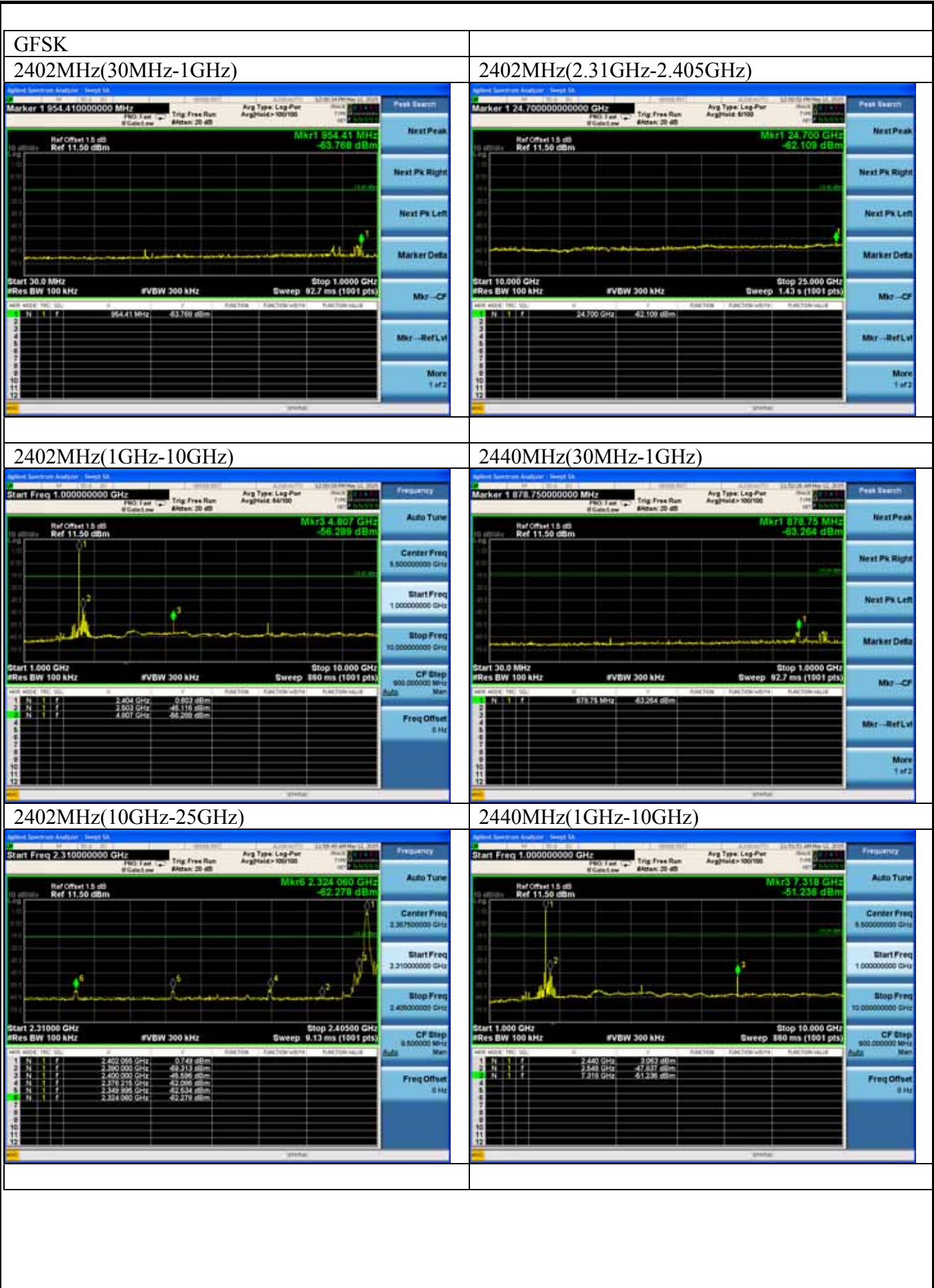
In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

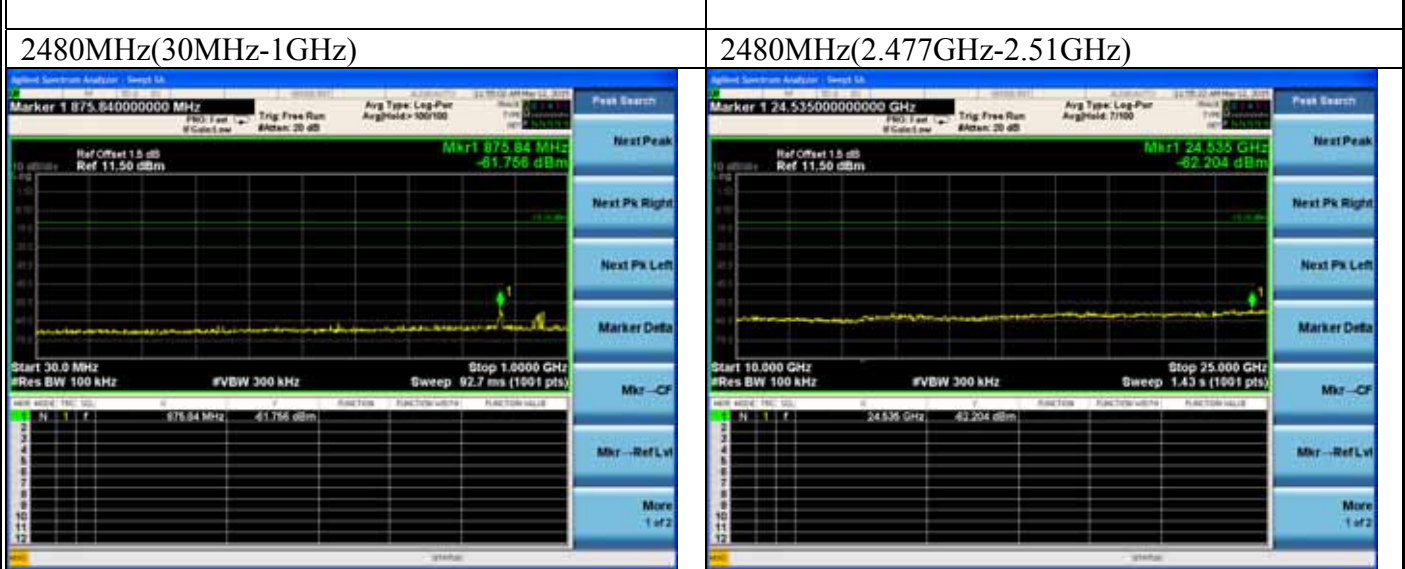
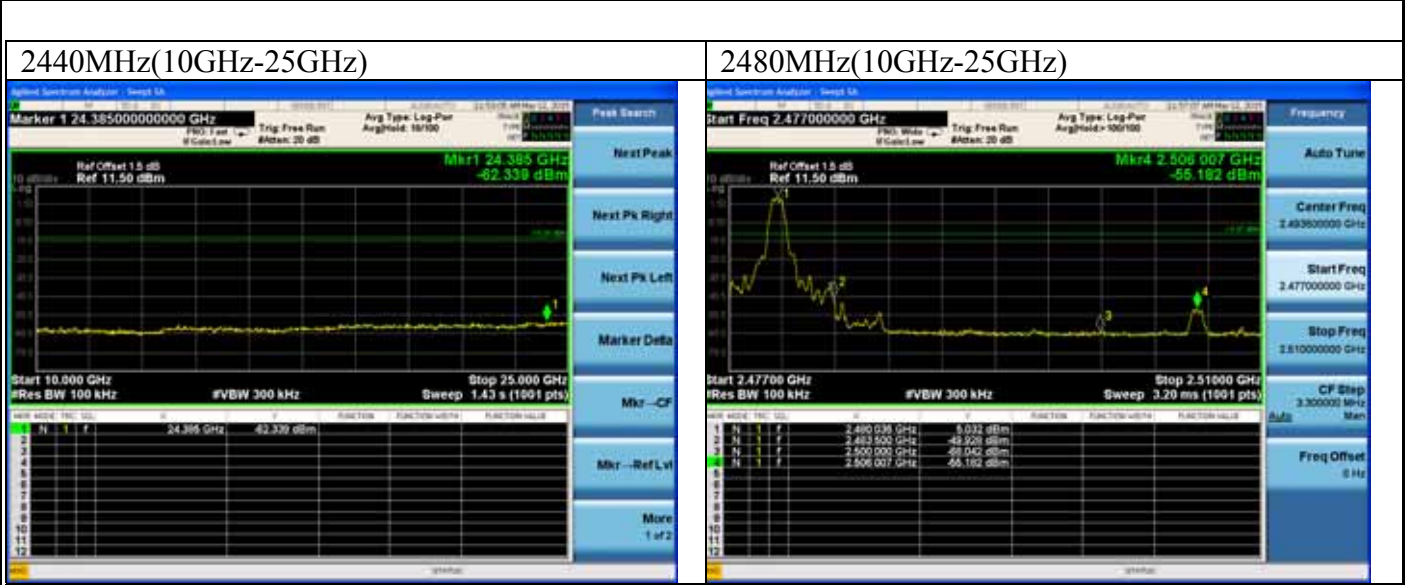
5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions With peak detector.

5.4. Test result

PASS (The testing data was attached in the next pages.)





6. 6dB BANDWIDTH TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr. 28,15	1 Year
2.	EMC Analyzer	Agilent	N9030A	MY51380221	Oct.29, 14	1 Year
3.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,15	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,15	1 Year

6.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

6.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

6.4. Test Results

EUT: 2.1 CH Bluetooth sound plate		
M/N: DSB500DT		
Test date: 2015-05-12	Pressure: 101.4±1.0kpa	Humidity: 52.0±3.0%
Tested by: Alice_yang	Test site: RF site	Temperature: 22.1±0.6

Test Mode	Frequency (MHz)	6 dB bandwidth (kHz)	Limit (KHz)
GFSK	2402	697.5	>500
	2440	695.4	>500
	2480	693.7	>500

Conclusion : PASS

<p>GFSK</p>	<p>2440MHz</p>
<p>2402MHz</p>	<p>2440MHz</p>
<p>Center Freq 2.402000000 GHz</p> <p>Center Freq 2.402000000 GHz</p> <p>Center 2.402 GHz</p> <p>Res BW 100 kHz</p> <p>VBW 300 kHz</p> <p>Span 3 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 1.0466 MHz</p> <p>Total Power 7.26 dBm</p> <p>Transmit Freq Error 5.750 kHz</p> <p>x dB Bandwidth 697.5 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p> <p>Center Freq 2.402000000 GHz</p> <p>CF Step 300.000 MHz</p> <p>Freq Offset 3 Hz</p>	<p>Center Freq 2.440000000 GHz</p> <p>Center Freq 2.440000000 GHz</p> <p>Center 2.44 GHz</p> <p>Res BW 100 kHz</p> <p>VBW 300 kHz</p> <p>Span 3 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 1.0445 MHz</p> <p>Total Power 10.0 dBm</p> <p>Transmit Freq Error 123 Hz</p> <p>x dB Bandwidth 695.4 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p> <p>Center Freq 2.440000000 GHz</p> <p>CF Step 300.000 MHz</p> <p>Freq Offset 3 Hz</p>
<p>2480MHz</p>	
<p>Center Freq 2.480000000 GHz</p> <p>Center Freq 2.480000000 GHz</p> <p>Center 2.48 GHz</p> <p>Res BW 100 kHz</p> <p>VBW 300 kHz</p> <p>Span 3 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 1.0450 MHz</p> <p>Total Power 12.1 dBm</p> <p>Transmit Freq Error 1.397 kHz</p> <p>x dB Bandwidth 693.7 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p> <p>Center Freq 2.480000000 GHz</p> <p>CF Step 300.000 MHz</p> <p>Freq Offset 3 Hz</p>	

7. MAXIMUM PEAK OUTPUT POWER TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Aug.20,14	1Year
3.	Power sensor	Anritsu	MA2491A	0033005	Aug.20,14	1Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,15	1Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr. 28,15	1Year

7.2. Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm).

7.3. Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power.

7.4. Test Results

EUT: 2.1 CH Bluetooth sound plate		
M/N: DSB500DT		
Test date: 2015-05-12	Pressure: 101.4±1.0kpa	Humidity: 52.0±3.0%
Tested by: Alice_yang	Test site: RF site	Temperature: 22.1±0.6

Test Mode	Frequency (MHz)	Peak output Power (dBm)	Limit (dBm)
GFSK	2402	0.890	30
	2440	3.369	30
	2480	5.443	30
Conclusion: PASS			

8. BAND EDGE COMPLIANCE TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Amp	HP	8449B	3008A02495	Apr. 28,15	1 Year
2.	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
3.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 28,15	1 Year
4.	RF Cable	Hubersuhner	Sucoflex102	28610/2	Apr. 28,15	1 Year

8.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

8.3. Test Produce

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

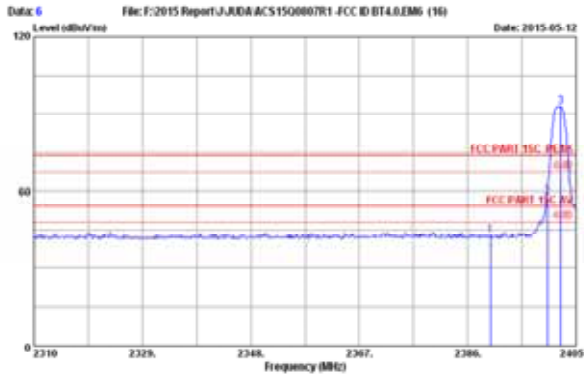
For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

8.4. Test Results

Pass (The testing data was attached in the next pages.)

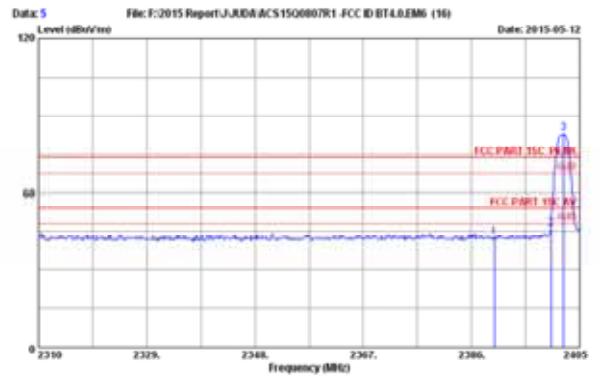
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 1 3m Chamber Data no. : 4
 Dis. / Ant. : 1 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2400MHz
 M/N : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.84	43.08	74.00	30.92	Peak
2	2400.000	28.18	5.00	35.70	39.66	57.91	71.00	16.06	Peak
3	2402.340	28.19	5.00	35.70	34.67	92.96	74.00	-18.96	Peak

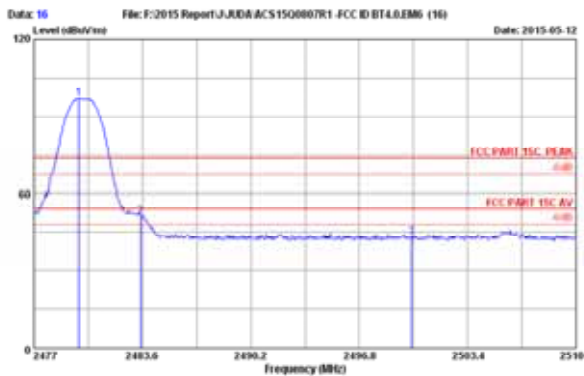
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1 3m Chamber Data no. : 5
 Dis. / Ant. : 1 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2400MHz
 M/N : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.54	42.78	74.00	31.22	Peak
2	2399.945	28.18	5.00	35.70	47.99	46.27	74.00	27.73	Peak
3	2402.150	28.18	5.00	35.70	84.81	83.09	74.00	-9.09	Peak

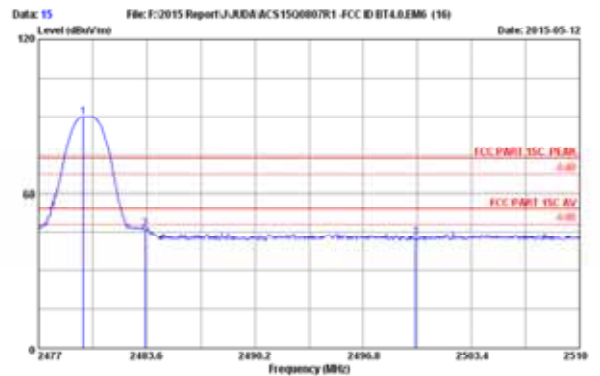
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1 3m Chamber Data no. : 16
 Dis. / Ant. : 1 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2400MHz
 M/N : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.739	28.36	5.91	35.70	90.27	96.04	74.00	-22.04	Peak
2	2483.500	28.36	5.92	35.70	82.68	81.26	74.00	22.74	Peak
3	2500.000	28.40	5.94	35.70	44.35	42.99	74.00	31.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1 3m Chamber Data no. : 15
 Dis. / Ant. : 1 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice_yang
 EUT : 2.1 CH Bluetooth sound plate
 Power rating : AC 120V/60Hz
 Test Mode : GFSK 2400MHz
 M/N : DSB500DT

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.739	28.36	5.91	35.70	91.36	89.93	74.00	-15.93	Peak
2	2483.500	28.36	5.92	35.70	47.83	46.11	74.00	27.89	Peak
3	2500.000	28.40	5.94	35.70	44.05	42.69	74.00	31.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr. 28,15	1 Year
2.	EMC Analyzer	Agilent	N9030A	MY51380221	Oct.29, 14	1 Year
3.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,15	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr. 28,15	1 Year

9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedure

1. Connected the EUT’s antenna port to spectrum analyzer device by 20dB attenuator.
2. Set the test frequency as center frequency, Set RBW=3KHz,VBW=10KHz,Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the span to 1.5 times of the DTS Bandwidth Detector= Peak; Sweep time= Auto Couple; Trace Mode= Max hold.
4. Allow trace to fully stabilize use the peak marker function to determine the maximum amplitude level within the RBW.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude

9.4. Test Results

EUT: 2.1 CH Bluetooth sound plate		
M/N: DSB500DT		
Test date: 2015-05-12	Pressure: 101.4±1.0kpa	Humidity: 52.0±3.0%
Tested by: Alice_yang	Test site: RF site	Temperature: 22.1±0.6

Test Mode	Frequency (MHz)	Power density (dBm/3KHz)	Limit (dBm/3KHz)
GFSK	2402	-15.075	8
	2440	-12.281	8
	2480	-10.103	8
Conclusion : PASS			

<p>GFSK</p> <p>2402MHz</p>	<p>2440MHz</p>
<p>Marker 1 2.401995800000 GHz Ref Offset 1.5 dB Ref 11.50 dBm Mkr1 2.401 995 8 GHz -15.075 dBm</p> <p>Center 2.402000 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 300.0 kHz #Sweep 100 s (1001 pts)</p>	<p>Marker 1 2.439995500000 GHz Ref Offset 1.5 dB Ref 11.50 dBm Mkr1 2.439 995 5 GHz -12.281 dBm</p> <p>Center 2.440000 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 300.0 kHz #Sweep 100 s (1001 pts)</p>
<p>2480MHz</p> <p>Marker 1 2.479995800000 GHz Ref Offset 1.5 dB Ref 11.50 dBm Mkr1 2.479 995 8 GHz -10.103 dBm</p> <p>Center 2.480000 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 300.0 kHz #Sweep 100 s (1001 pts)</p>	

10. ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are Dipole antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 2dBi

11. DEVIATION TO TEST SPECIFICATIONS

[NONE]