FCC PART 15.249 EMI MEASUREMENT AND TEST REPORT For

Shenzhen Jinglingshi Technology Co.,Ltd Floor 6,Building C,Xiaweiyuan,Chaxijingfa Industrial Area,Bao'an District,Shenzhen

FCC ID:2AGKDBS-01

This Report Concerns:		Equipment Type:		
Original Report		Bluetooth speaker		
Test Engineer:	Lisa Chen	Lish Chan		
Report No.:	BSL20151116-1			
Receive EUT	November 01, 2015/			
Date/Test Date:	November 01- November 16, 2015			
Reviewed By:	Mike moo	dukemoo		
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1. GENERAL INFORMATION

1.1. Report information

- 1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BSL approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BSL in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BSL therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BSL, unless the applicant has authorized BSL in writing to do so.

Test Facility -

The test site used to collect the radiated data is located on the address of

BSL Testing Co.,LTD.

(FCC Registered Test Site Number: 191509) on

NO. 24, ZH Park, Nantou, Shenzhen, 518000 China

The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	+/-1.25dB
2	RF Power, Conducted	+/-0.20dB
3	Spurious emissions, conducted	+/-0.33dB
4	All emissions, radiated (<1G)	+/-3.47dB
5	All emissions, radiated (>1G)	+/-3.82dB
6	Temperature	+/-0.5°CdB
7	Humidity	+/-2%

2. PRODUCT DESCRIPTION

2.1. EUT Description

Description : Bluetooth speaker

Applicant : Shenzhen Jinglingshi Technology Co.,Ltd

 $Floor\ 6, Building\ C, Xiaweiyuan, Chaxijing fa\ Industrial\ Area, Bao'an\ District, Shenzhen$

Manufacturer : Shenzhen Jinglingshi Technology Co.,Ltd

Floor 6, Building C, Xiaweiyuan, Chaxijingfa Industrial Area, Bao'an District, Shenzhen

Model Number : BS-01,BS01-01,BS-100,BS-05,BS-ROCK,BS-200

Modulation type : GFSK Antenna gain : 0dBi

BT version : V2.1 (no Support EDR Because of the firmware limitation)

Antenna type : PCB Antenna
Frequency : 2402-2480MHz
Number of Channels : 79 Channels
Power Supply : DC 3.7V Battery

Hardware version : V2.4

Software version : V1

Serial Number : 20151116

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
00	2402	27	2429	54	2456		
01	2403	28	2430	55	2457		
02	2404	29	2431	56	2458		
03	2405	30	2432	57	2459		
04	2406	31	2433	58	2460		
05	2407	32	2434	59	2461		
06	2408	33	2435	60	2462		
07	2409	34	2436	61	2463		
08	2410	35	2437	62	2464		
09	2411	36	2438	63	2465		
10	2412	37	2439	64	2466		
11	2413	38	2440	65	2467		
12	2414	39	2441	66	2468		
13	2415	40	2442	67	2469		
14	2416	41	2443	68	2470		
15	2417	42	2444	69	2471		
16	2418	43	2445	70	2472		
17	2419	44	2446	71	2473		
18	2420	45	2447	72	2474		
19	2421	46	2448	73	2475		
20	2422	47	2449	74	2476		
21	2423	48	2450	75	2477		
22	2424	49	2451	76	2478		
23	2425	50	2452	77	2479		
24	2426	51	2453	78	2480		
25	2427	52	2454				
26	2428	53	2455				

The series products, model name: BS-01,BS01-01,BS-100,BS-05,BS-ROCK,BS-200 have the same circuit diagram,PCB layout, software, RF Module, Features and functionality. The differences are the model name, so, we select BS-01 to test.

2.2. Block Diagram of EUT Configuration

Radiated test:

EUT

Conducted test:



Figure 1 EUT Setup

2.3. Support Equipment List

Name	Model No	S/N	Manufacturer	Used (Y/N)
AC adapter	FJ-SW0501000UU	-	I.T.E	Y
-	-	-	-	-

2.4. Test Conditions

It must provide an operational voltage (3.7V DC by Battery) to turn on the Bluetooth speaker and on one certain channel in service mode by means of company proprietary software.

the test software name: RDA5851S test Software.

After the preliminary test, we found to emit the worst emissions and therefore had been tested under operating condition.

during the test the eut use the fully-charged battery

The EUT Themselves can enter the test mode.

Power setting parameters For mode:

GFSK (PK Power:-2dbm).

For the EUT was tested with Channel Frequency 2402MHz, 2440MHz and 2480MHz.

3. TEST RESULTS SUMMARY

FCC 15 Subpart C, Paragraph 15.249:2013

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	Compliant
Section 15.249(a)	The fundamental field strength and the harmonics	Compliant
Section 15.209 Section 15.249(d)	Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant
Section 15.249	20dB Bandwidth	Compliant

Remark: "N/A" means "Not applicable".

Statement: All testing was performed using the test procedures found in ANSI C63.4-2003.

Modifications

No modification was made.

4. TEST EQUIPMENT USED

EQUIPMENT/FACI LITIES	MANUFACTUR ER	MODEL	SERIAL NO.	DATE OF CAL.	CAL. INTERV AL
3m Semi-Anechoic Chamber	Chengyu Electron	9 (L)*6 (W)* 6 (H)	BSL086	Aug. 23 2015	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCI3	BSL001	Sep. 28 2015	1 Year
BiConiLog Antenna	Rohde & Schwarz	HL562 (30MHz=3GHz)	BSL009	Sep. 28 2015	1 Year
Double -ridged waveguide horn	Rohde & Schwarz	BBHA9120D (1-18GHz)	BSL008	Aug. 27 2015	1 Year
Horn Antenna	AHS	SAS-574 (18GHz-40GHz)	BSL072	Dec. 28 2014	1 Year
Cable	PUTIANLE	BSL045 (9 kHz-40GHz)	BSL045	Aug. 27 2015	1 Year
Cable	PUTIANLE	BSL046 (9 kHz-40GHz)	BSL046	Aug. 27 2015	1 Year
Cable	PUTIANLE	BSL047 (9 kHz-40GHz)	BSL047	Aug. 27 2015	1 Year
Amplifier(100kHz-40GH z)	R&S	SMR40	BSL007	Sep. 28 2015	1 Year
Band filter	Amindeon	82346	BSL049	Aug. 27 2015	1 Year
Active Loop Antenna	Schwarzbeck	FMZB1519 (9 kHz - 30 MHz)	BSL011	Sep. 28 2015	1 Year
Coaxial Switch	YUANFANG	TA218B	BSL004	Aug. 27 2015	1 Year
Spectrum analyzer	Rohde & Schwarz	FSP40	BSL049	Sep. 28 2015	1 Year
Shielding Room	zhongyu Electron	7.0(L)x3.0(W)x3.0(H)	BSL085	Sep. 28 2015	1 Year
EMI Test Receiver	R&S	ESPI	BSL002	Sep. 28 2015	1 Year
10dB Pulse Limita	R&S	BSL003	BSL003	Sep. 28 2015	1 Year
Coaxial Switch	PUTIANLE	TA218B	BSL004	Aug. 27 2015	1 Year
LISN	Rohde & Schwarz	ESH3-Y5	BSL005	Sep. 28 2015	1 Year
Coaxial Cable	PUTIANLE	BSL048 (9 kHz-40GHz)	BSL048	Aug. 27 2015	1 Year
EMI TEST SOFTWARE	AUDIX	E3	N/A	N/A	N/A

5. ANTENNA REQUIREMENT

5.1. 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.

5.2. Antenna Connected Construction

According to § 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The antenna used for this product is a PCB ANT .The antenna is permanently attached. Refer to the product photo.

5.3. Result

Compliance

6. CONDUCTED POWER LINE TEST

6.1. Test Equipment

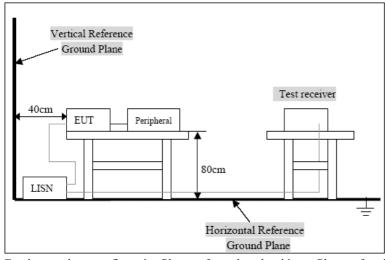
Please refer to section 4 this report.

6.2. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uh coupling inpedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uh coupling inpedance with 50ohm termination.

Both sides of A.C. Line are check for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ASIN C63.4:2003 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

6.3. Test Setup



For the actual test configuration, Please refer to the related items-Photos of testing

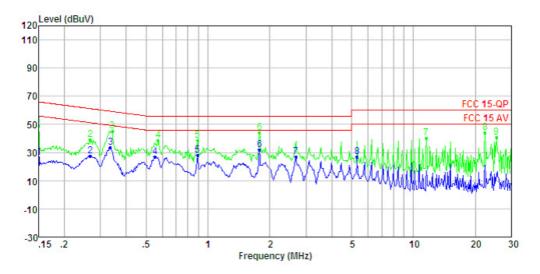
6.4. Conducted Power line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)						
Frequency Range	Class A	Class B				
(MHZ)	QP/AV	QP/AV				
0.15-0.5	79/66	65-56/56-46				
0.5-5.0	73/60	56-46				
5.0-3.0 73/60 60-50						

Note: In the above table, the tighter limit applies at the band edges.

6.5. Conducted Power Line Test Result

Pass 2402MHz Transmitting(Worst case mode) power test voltage:AC 120V/60Hz



Condition:

: RBW:9.000KHz VBW:30.000KHz Limit Over

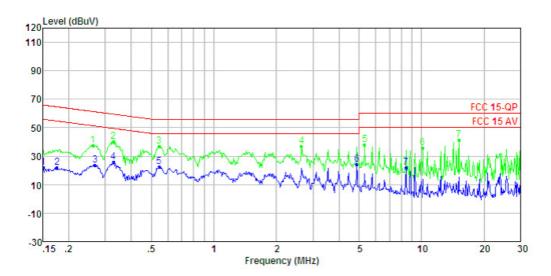
	Freq	Level	Limit	Limit	Remark	Pol/Phase
	MHz	dBuV	dBuV	dB	Y.	
1 2 3 4 5 6 Max 7	0. 150 0. 267 0. 336 0. 552 0. 890 1. 781 2. 678 5. 333	26. 5 27. 8 33. 7 27. 3 28. 2 32. 3 26. 9 27. 0	51.2 49.3 46.0 46.0 46.0 46.0	-23. 4 -15. 6 -18. 7 -17. 8 -13. 7 -19. 1	Average Average Average Average Average Average Average Average	LINE LINE LINE LINE LINE LINE LINE LINE

Condition:

: RBW:9.000KHz VBW:30.000KHz

Remark Pol/Phase

QP LINE



Condition: : RBW:9.000KHz VBW:30.000KHz Limit Over

	Freq	Level	Limit	Limit	Remark	Pol/Phase
la-	MHz	dBuV	dBuV	dB	C-	Alexander of
1	0.151	22.1	56.0	-33.9	Average	NEUTRAL
2	0.176	22.0	54.7	-32.7	Average	NEUTRAL
3	0.267	23.9	51.2	-27.3	Average	NEUTRAL
4 5	0.329	25.7	49.5	-23.8	Average	NEUTRAL
5	0.546	22.5	46.0	-23.5	Average	NEUTRAL
6	4.874	24.0	46.0	-22.0	Average	NEUTRAL
7 Max	8, 412	21.9	50.0	-28.1	Average	NEUTRAL

Condition: : RBW:9.000KHz VBW:30.000KHz

Freq	Level	Limit	Limit	Remark	Pol/Phase
MHz	dBuV	dBuV	dB		
0.262	37.7	61.4	-23.7	QP	NEUTRAL
0.329	40.5	59.5	-19.0	QP	NEUTRAL
0.546	37.1	56.0	-18.9	QP	NEUTRAL
2.650	36.9	56.0	-19.1	QP	NEUTRAL
5.333	38.2	60.0	-21.8	QP	NEUTRAL
10.125	36.1	60.0	-23.9	QP	NEUTRAL
15, 146	41.3	60.0	-18.7	QP	NEUTRAL
	MHz 0. 262 0. 329 0. 546 2. 650 5. 333 10. 125	MHz dBuV 0.262 37.7 0.329 40.5 0.546 37.1 2.650 36.9 5.333 38.2 10.125 36.1	Breq Level Line MHz dBuV dBuV 0.262 37.7 61.4 0.329 40.5 59.5 0.546 37.1 56.0 2.650 36.9 56.0 5.333 88.2 60.0 10.125 36.1 60.0	MHz dBuV dBuV	MHz dBuV dBuV dB 0.262 37.7 61.4 -23.7 QP 0.329 40.5 59.5 -19.0 QP 0.546 37.1 56.0 -18.9 QP 2.650 36.9 56.0 -19.1 QP 5.333 38.2 60.0 -21.8 QP 10.125 36.1 60.0 -23.9 QP

7. RADIATED EMISSION TEST

7.1. Test Equipment

Please refer to section 4 this report.

7.2. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level.

Calibrated Loop antenna is used as receiving antenna for frequencies below 30MHz, Calibrated Bilog antenna is used as receiving antenna for frequencies between 30 MHz and 1 GHz, Calibrated Horn antenna is used as receiving antenna for frequencies above 1000MHz. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

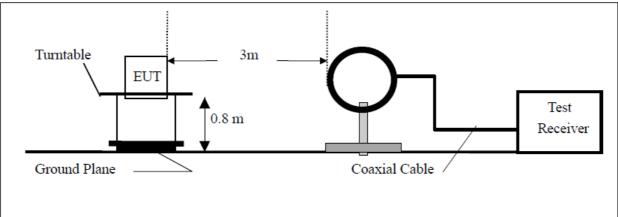
The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Peak detector and Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

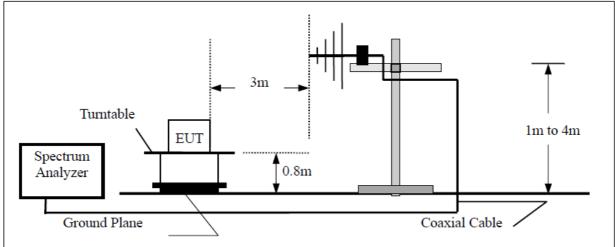
Through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit. And X direction is worst mode.

7.3. Radiated Test Setup

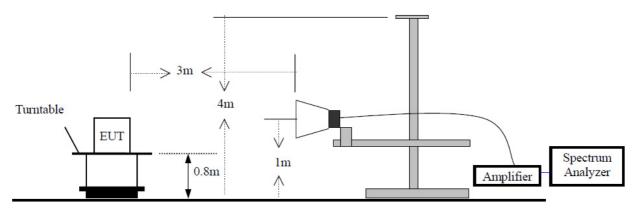
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



7.4. Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A. Fundamental and Harmonics Radiated Emissions 15.249(a) Limit

Fundamental Frequency	Field as treng	gth of Fundamental(3	3m)	Field as trength of Harmonics(3m)		
(MHZ)	mV/m	dBuV/m	dBuV/m		dBuV/m	
902-928	50	94(QP)	94(QP) 114(Peak)		54(AV)	74(Peak)
2400-2483.5	50	94(AV)	114(Peak)	500	54(AV)	74(Peak)

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

- (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (3) The emission limit in this paragraph os based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

B. Spurious Radiated Emissions.

		Limit							
Frequency (MHz)	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBµV/m)	Measurement distance (m)	The final measurement in band 9-90kHz,					
0.009 - 0.490	2400/F(kHz)	/	300	110-490kHz and above 1000MHz is					
0.490 - 1.705	24000/F(kHz)	/	30	performed with					
1.705-30	30	29.5	30	Average detector. Except those					
30 - 88	100	40	3	frequency bands mention above, the					
88 - 216	150	43.5	3	final measurement for frequencies					
216 - 960	200	46	3	below 1000MHz is performed with					
Above 960	500	54	3	Quasi Peak detector.					

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distagnce refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

7.5. Radiated Emission Test Result

Pass

A. Fundamental Radiated Emissions Data

CH Low

Freq. (MHz)	Read Level (dBuV) AV/PK	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission (dBuV/m) AV/PK	HORIZ/ VERT	Limits (dBuV/m) AV/PK	Margin (dB)
2402	79.01/89.08	27.47	5.42	30.17	81.73/91.8	VERT	94/114	-12.27/-22.2
2402	81.12/90.97	27.47	5.42	30.17	83.84/93.69	HORIZ	94/114	-10.16/-20.31

CH Middle

Freq. (MHz)	Read Level (dBuV) AV/PK	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission (dBuV/m) AV/PK	HORIZ/ VERT	Limits (dBuV/m) AV/PK	Margin (dB)
2440	80.39/89.8	27.40	5.40	30.15	83.04/92.45	VERT	94/114	-10.96/-21.55
2440	81.57/91.41	27.40	5.40	30.15	84.22/94.06	HORIZ	94/114	-9.78/-19.94

CH High

Freq. (MHz)	Read Level (dBuV) AV/PK	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission (dBuV/m) AV/PK	HORIZ/ VERT	Limits (dBuV/m) AV/PK	Margin (dB)
2480	79.09/88.53	27.50	5.46	29.98	82.07/90.4	VERT	94/114	-11.93/-22.49
2480	81.03/90.48	27.50	5.46	29.98	84.01/93.46	HORIZ	94/114	-9.99/-20.54

Remark:

Final Emission = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

\mathbf{p}	General	Dadi	atad E	mica	ione l	Data
D	Cteneral	каш	апен г	HHISS	ions i	DATA

For below 9kHz-30MHz Spurious

Freq. (MHz)	Emission(dBuV/m) PK / AV	Limits(dBuV/m) PK / AV	Margin (dB)
-	-	-	-
-	-	-	-

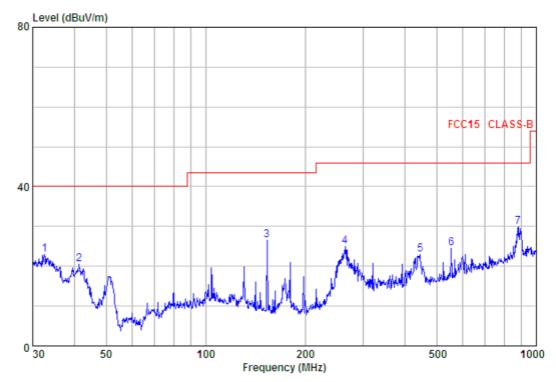
N	ote	

	Emissions attenuated	l more than 20 dB	below the	permissible va	lue are not reported.
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For 30M-1000MHz Spurious

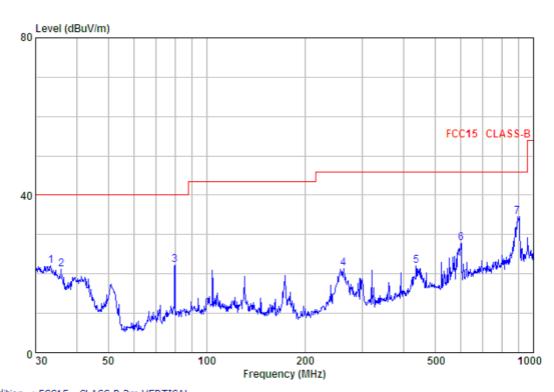
Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

2402MHz Transmitting(Worst case mode)



Condition: FCC15 CLASS-B 3m HORIZONTAL: RBW:120.000KHz VBW:300.000KHz SWT:Auto

	Freq	Line	Level	Limit	Remark	Pol/Phase
	MHz	dBuV/m	$\overline{dBuV/m}$	dB		
1 2 3 4 5 6 7 max	32, 520 41, 422 153, 200 263, 819 444, 851 552, 883 881, 407	40.0 40.0 43.5 46.0 46.0 46.0	20.5 26.5 25.0 22.9 24.5	-17.2 -19.5 -17.0 -21.0 -23.1 -21.5 -16.1	QP QP QP QP QP	HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL



Condition: FCC15 CLASS-B 3m VERTICAL: RBW:120.000KHz VBW:300.000KHz SWT:Auto
Limit Over

	Freq	Line	Level	Limit	Remark	Pol/Phase
	MHz	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB		
1 2 3 4 5 6 7 max	33, 328 36, 001 80, 081 262, 896 437, 120 601, 427 893, 857	40.0 46.0 46.0	21.2 22.4 21.4 22.0 28.0	-17.6 -24.6 -24.0	QP QP QP QP QP	VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL

For 1000MHz-25000MHz Spurious

CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4804	39.94/49.87		54.0/74.0	-14.06/-24.13
7206	43.9/53.87	VERT	54.0/74.0	-10.1/-20.13
9608	41.89/51.89		54.0/74.0	-12.11/-22.11
4804	38.81/50.48		54.0/74.0	-15.19/-23.52
7206	46.35/56.35	HORIZ	54.0/74.0	-7.65/-17.65
9608	47.84/57.84		54.0/74.0	-6.16/-16.16

CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4880	34.92/45		54.0/74.0	-19.08/-29
7320	40.81/50.76	VERT	54.0/74.0	-13.19/-23.24
9760	39.74/49.77		54.0/74.0	-14.26/-24.23
4880	35/45.03		54.0/74.0	-19/-28.97
7320	43.07/53.07	HORIZ	54.0/74.0	-10.93/-20.93
9760	47.81/57.8		54.0/74.0	-6.19/-16.2

CH High

ngn					
ll l	Freq. MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4	1960	38.29/48.33		54.0/74.0	-15.71/-25.67
7	7440	42.16/52.16	VERT	54.0/74.0	-11.84/-21.84
9	9920	43.2/53.29		54.0/74.0	-10.8/-20.71
4	1960	37.56/47.56		54.0/74.0	-16.44/-26.44
7	7440	42.25/51.1	HORIZ	54.0/74.0	-11.75/-22.9
9	9920	44.25/53.18		54.0/74.0	-9.75/-20.82

Note:

- 1. The average measurement was not performed when the peak measured data under the limit of average detection.
- 2. Emissions attenuated more than 20 dB below the permissible value are not reported.

8. BAND EDGE

8.1. Test Equipment

Please refer to Section 4 this report.

8.2. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement. The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and non-restricted band:RBW=100kHz, restricted band:RBW=1MHz in above 1000MHz. The frequency range from 9kHz to 25GHz is checked.

8.3. Band Edge FCC 15.249(d) Limit

Emissions radiated	d outside of t	the specified	frequency band	s, except for harmo	nics, shall b	oe attenuated l	by at least 50	dB below t	the leve
of the fundamenta	l or to the ge	eneral radiate	d emission limit	s in Section 15.209	, whichever	r is the lesser	attenuation.		

8.4. Band Edge Test Result

Pass

ALL of the restriction bands were tested, and only the data of worst case was exhibited.

CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2390	46.11/53.9		54.0/74.0	-7.89/-20.1
2400	51.38/60.8	VERT	54.0/74.0	-2.62/-13.2
2390	46.84/55.91		54.0/74.0	-7.16/-18.09
2400	49.07/62.02	HORIZ	54.0/74.0	-4.93/-11.98

CH High

· <u>B··</u>				
Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2483.5	47.25/58.58		54.0/74.0	-6.75/-15.42
2500.00	44.28/54.17	VERT	54.0/74.0	-9.72/-19.83
2483.5	48.61/59.17		54.0/74.0	-5.39/-14.83
2500.00	45.17/53.32	HORIZ	54.0/74.0	-8.83/-20.68

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.

9. 20-DB BANDWIDTH

9.1. Test Equipment

Please refer to Section 4 this report.

9.2. Test Procedure

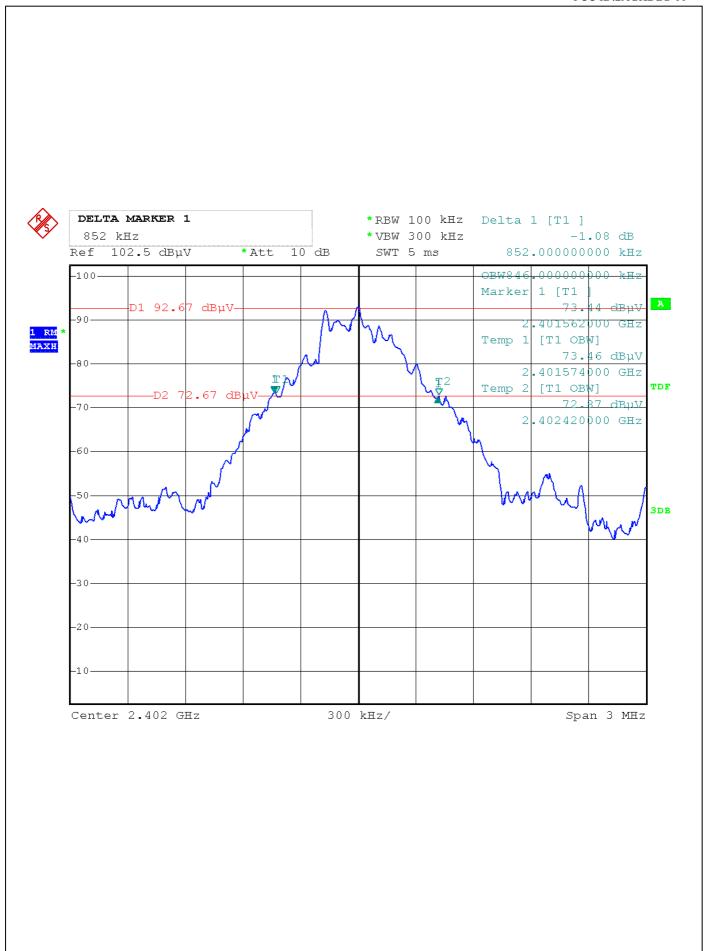
- 1. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.
- 2. Set center frequency of spectrum analyzer = operating frequency.
- 3. The spectrum analyzer as RBW=100 KHz, VBW=300 KHz, Sweep=5ms.
- 4. Mark the peak frequency and –20dB (upper and lower) frequency.

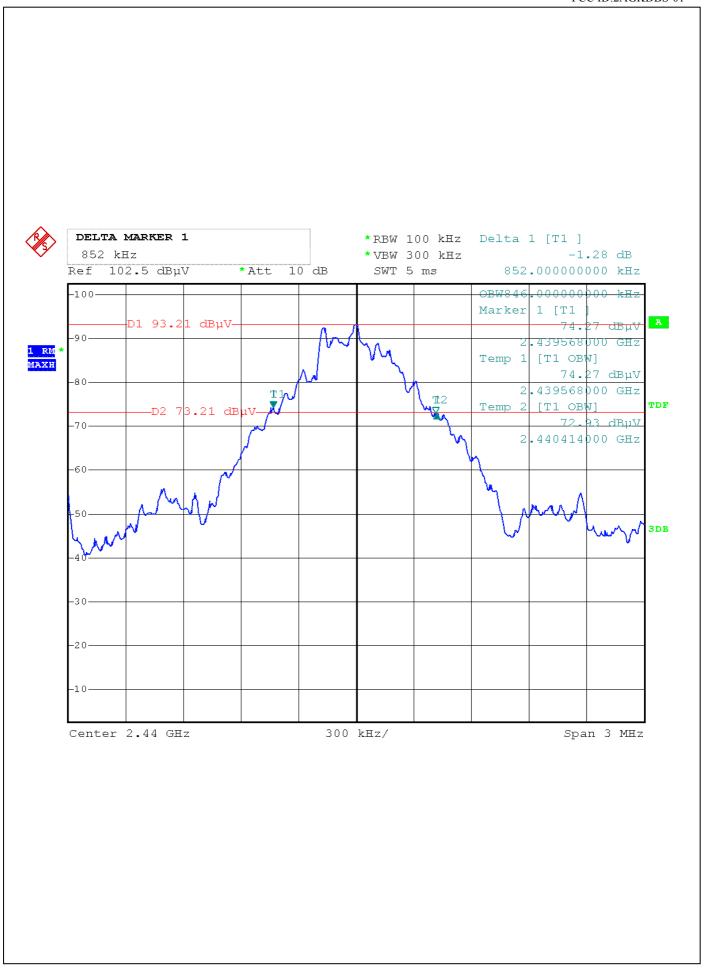
9.3. Limit

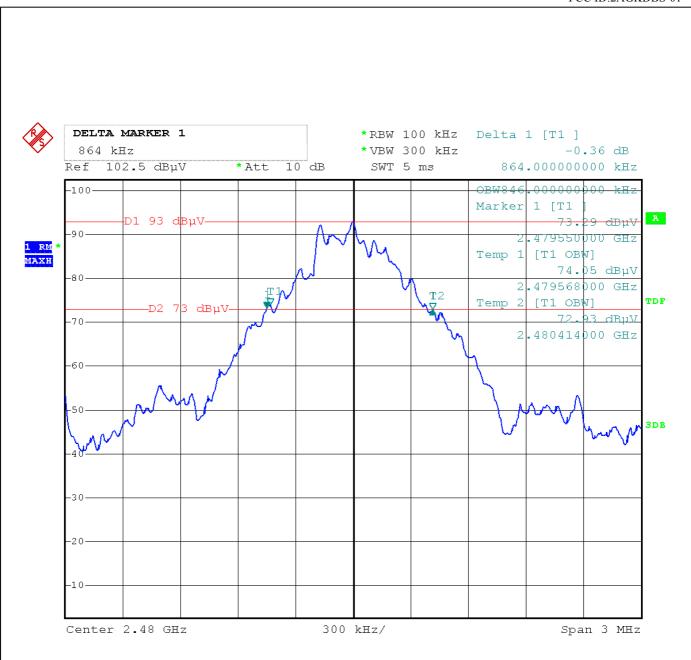
Please refer section15.249

9.4. Test Result /Plots

Limit	Channel Frequency (MHz)	20dB Bandwidth (MHz)	
/	2402	0.852	
/	2441	0.852	
/	2480	0.864	







End Of The Report