

# FCC Test Report

**Application No.:** HKES141200250601  
**Applicant:** S.E.M. INDUSTRIES  
**Address:** 35/F., Tower A, Billion Centre  
No.1 Wang Kwong Road, Kowloon Bay, Kowloon  
Hong Kong

**Product Information:**

**Product Description:** Portable Stereo Speaker  
**Model:** X-3808-BTFM3U~4AH, X-3808-BTFM3U, X-3808, X3808BTFM3U4AH, X3808BTFM3U, X3808 ♣

♣

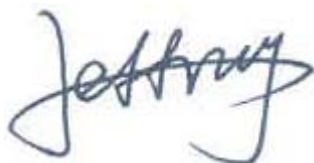
Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

**Brand Name:** S.E.M/ S-LOGO/ NIL/ S-DIGITAL/ SDIGITAL/ S.E.M. AUDIO LABORATORIES  
**Product Class :** Low Power Communication Device – Transmitter (2.4 GHz)  
**FCC ID:** 2AANA-SEM-X3808  
**Requirement:** CFR 47 FCC PART 15 SUBPART C, 2014  
- Intentional Radiators (Section 15.249)  
**Date of Receipt:** 2014-12-23  
**Date of Test:** 2014-12-27 to 2015-01-15  
**Date of Issue:** 2015-01-20

<b>Test Result :</b>	<b>PASS*</b>
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In the configuration tested, the EUT complied with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

Authorized Signature:



**CHEN Jian-feng, Jeffrey**

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS IECC Limited or testing done by SGS IECC Limited in connection with, distribution or use of the product described in this report must be approved by SGS IECC Limited in writing.

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## 2 Test Summary

Test	Test Requirement	Test Method	Result
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART C: 2014	ANSI C63.4:2003	PASS
Radiated Emission (9kMHz to 1GHz)	FCC PART 15, SUBPART C: 2014	ANSI C63.4:2003	PASS
Radiated Emission above 1 GHz	FCC PART 15, SUBPART C: 2014	ANSI C63.4:2003	PASS
Band edge / 20 dB Bandwidth	FCC PART 15, SUBPART C: 2014	ANSI C63.4:2003 Marker-Delta measurement	PASS
<p>♣ <b>Item no.:</b> X-3808-BTFM3U~4AH, X-3808-BTFM3U, X-3808, X3808BTFM3U4AH, X3808BTFM3U, X3808</p> <p>According to the confirmation from the applicant, the above models are identical in all electrical aspects in relating to the circuit design, PCB layout and construction. The differences are the model no. trade name, color, cosmetic outlook and silkscreen.</p> <p>Therefore only the item X-3808-BTFM3U~4AH was tested in this report.</p>			

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## 4 General Information

### 4.1 General Description of EUT

Product Description: Portable Stereo Speaker  
Model No: X-3808-BTFM3U~4AH  
Serial No.: --

### 4.2 Details of EUT

Power Supply: AC 120V 60Hz to DC 5V, Adaptor: AS050-050-UA100  
(Rechargeable battery x1)  
Operating Frequency: 2402-2480MHz  
Antenna Type: Integral antenna  
Bluetooth version: V2.1+EDR  
Modulation Type: GFSK,  $\pi/4$ -DQPSK and 8DPSK

Modulation	Packet	Packet Type	Packet Size
GFSK	DH1	4	24
	DH3	11	183
	DH5	15	339
$(\pi/4)$ DQPSK	2DH1	20	54
	2DH3	26	367
	2DH5	30	379
8DPSK	3DH1	24	83
	3DH3	27	552
	3DH5	31	1021

### 4.3 Conditions of EUT

The received sample was under good condition.

### 4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	HP	OmniBook 6000 series	(S) TW22204704
BT test board	Supported by client		
Test software	BK3256 RF Test_V1.3		
Cable	Aux in cable (3.5mm jack) with 22k Ohms Terminator		
Cable	Usb cable with 10 Ohms Terminator		

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

All field strength measures in this test report were done by the aid of test software which places the device in continuous transmission under different package type and the test software above allowed to set the frequency fixed and hopping stopped.

#### 4.5 Standards Applicable for Testing

CFR 47, FCC Part 15, 2014  
ANSI C63.4:2003

#### 4.6 Test Location

All tests were performed at:

SGS IECC Limited (Member of the SGS Group (SGS SA))

Units 303-305, 3/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480

#### 4.7 Test Facility

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (FCC Registration No. : 97774).

The test facility is recognized, certified, or accredited by the following organizations:

FCC – CAB Registration No.: 446297

Measurement facility located at Fanling (Hong Kong), accredited as a Conformity Assessment Body (CAB) and was designated by FCC to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules.

#### 4.8 Deviation from Standards

None.

#### 4.9 Abnormalities from Standard Conditions

None.

#### 4.10 Declaration of Family Grouping

None.

#### 4.11 Abbreviations

N/A: Not Applicable

EUT: Equipment Under Test

## 5 Equipments Used during Test

Conducted Emission				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
Test Receiver	Rohde & Schwarz	ESHS 30 / 839667/002	2014/10/17	2015/10/16
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127 / 8127312	2014/4/8	2015/4/7
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2 / 375881052	2013/1/21	2015/1/20

Radiated Emission				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
3m Semi-Anechoic Chamber (pre-test)	--	--	--	--
3m / 10m Open Area Test Site	--	--	2012-3-17	2015-3-16
Test Receiver	Rohde & Schwarz	ESCS 30 / 100388	2014/10/17	2015/10/16
Spectrum Analyzer	Rohde & Schwarz	FSP 30 / 101474	2014/6/16	2015/6/15
Loop antenna	Rohde & Schwarz	HFH2-Z2 / 871336/48	2012/12/27	2015/12/26
Antenna 30-1000MHz	Schaffner	CBL6111C / 2791	2014/10/19	2016/10/18
Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D / 9120D-1070	2014/1/13	2016/1/12
Horn Antenna 15-26.5GHz	Schwarzbeck	BBHA9170 / 9170-492	2014/11/24	2016/11/23
Preamplifier 10MHz – 6GHz	Schwarzbeck	BBV9743 / 9743-052	2014/1/13	2016/1/12
Preamplifier 1-18GHz	Schwarzbeck	BBV9718 / 9718-223	2014/1/13	2016/1/12
Preamplifier 18- 26.5GHz	Schwarzbeck	BBV9719 / 9719-019	2014/11/19	2016/11/18
Coaxial Cable	--	E167	2014/06/25	2015/06/24
RF Cable	HUBER+SUHNER	E207	2014/11/17	2016/11/16
Antenna Mast System	Schwarzbeck	AM9104 / -	--	--

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Turntable with Controller	Drehtisch	DT312 / -	--	--
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General Use Equipment				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
Digital Multimeter	Fluke	189 / 83640020	2014/4/8	2015/4/7
Temperature / Humidity meter	-	E158	2014-11-14	2015/11/13

## 6 Test Results

### Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 C  
Test Method: ANSI C63.4  
Test Date: 2014-12-27  
Frequency Range: 150kHz to 30MHz  
Class / Severity: Class B  
Detector: Peak for pre-scan (9kHz Resolution Bandwidth)  
Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

Limit:

Frequency range MHz	Class B Limits dB (μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
<b>Note:</b> 1) The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. 2) The lower limit is applicable at the transition frequency.		

#### 6.1.1 EUT Operation

Operating Environment:

Temperature: 21°C Humidity: 53% RH

EUT Operation: Pre-test with adaptor or battery operate and Peak detector with the following mode(s):

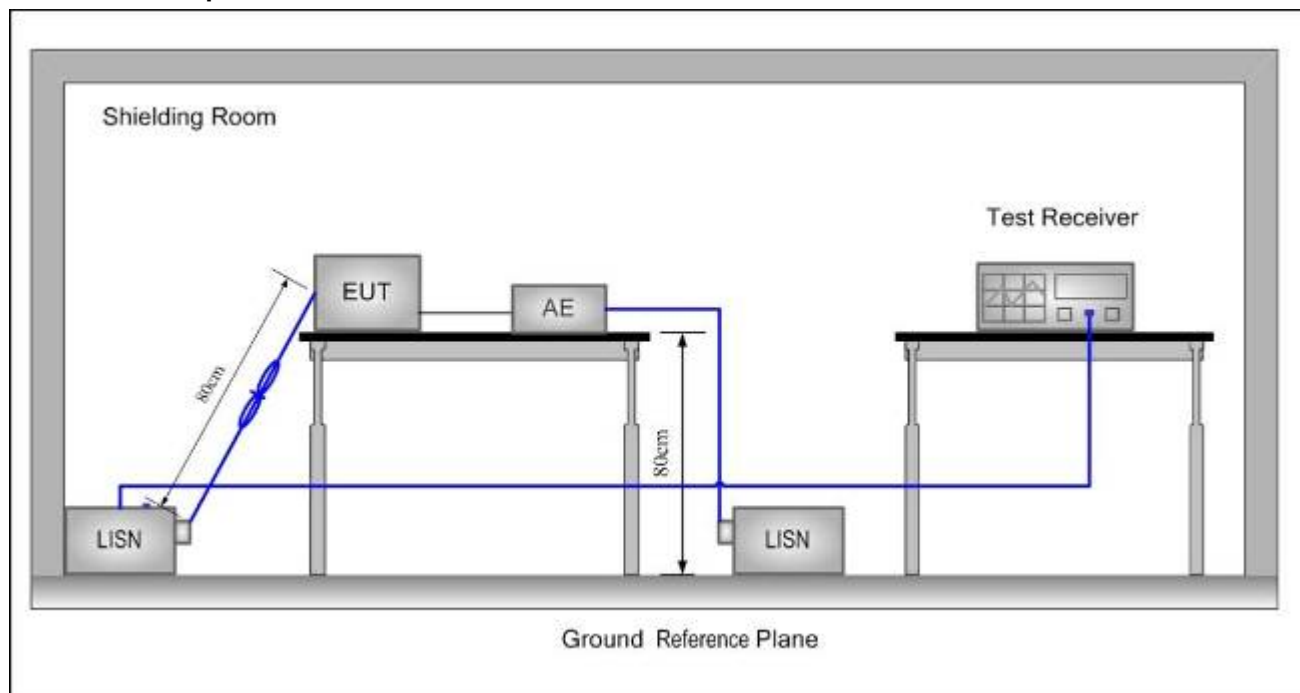
- 1: Transmission with GFSK (packet DH1/DH3/DH5)
- 2: Transmimssion with II/4-DQPSK (packet 2DH1/2DH3/2DH5)
- 3: Transmission with 8DPSK (packet 3DH1/3DH3/3DH5)

Final test with adaptor and Quasi-Peak detector with the following mode(s):

- 1: Transmission with GFSK (packet DH5)



### 6.1.2 Test Setup and Procedure



1. The mains terminal conducted emission test was conducted in a shielded room.
2. The EUT was connected to AC power source through a LISN (Line Impedance Stabilization Network) which provides a  $50\Omega/50\mu\text{H} + 5\Omega$  linear impedance. For Load terminal voltage measurement, a voltage probe was used on the load terminals. Measurement at control terminals were carried out by means of an impedance stabilization network (ISN). The ISN was bounded to ground.
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. The EUT kept a distance of at least 0.8m from any other earthed conducting surface. The Artificial Mains Network was situated at a distance of 0.8m from the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

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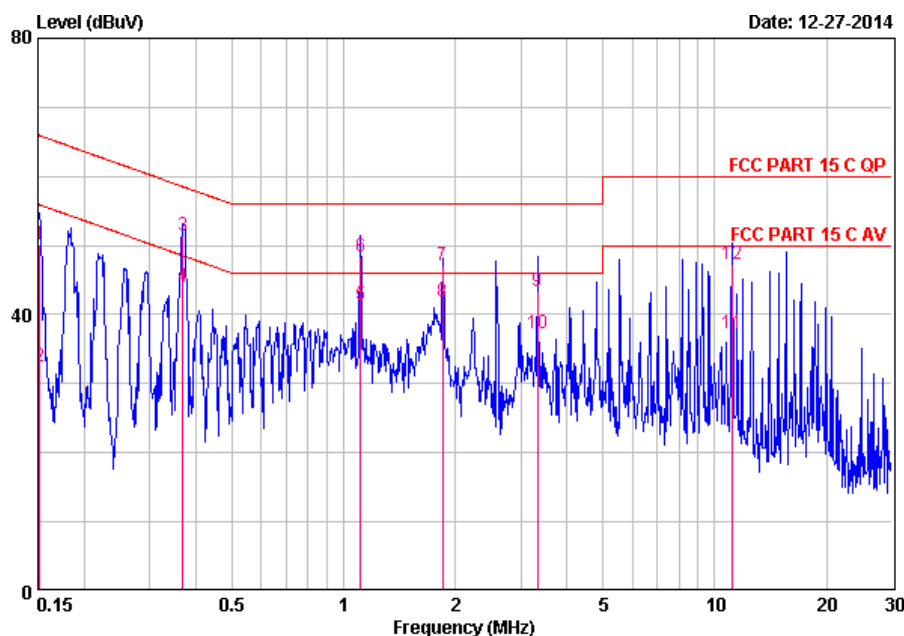
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## 6.1.3 Measurement Data

Live Line:

BT mode

Quasi-peak/ Average measurement:

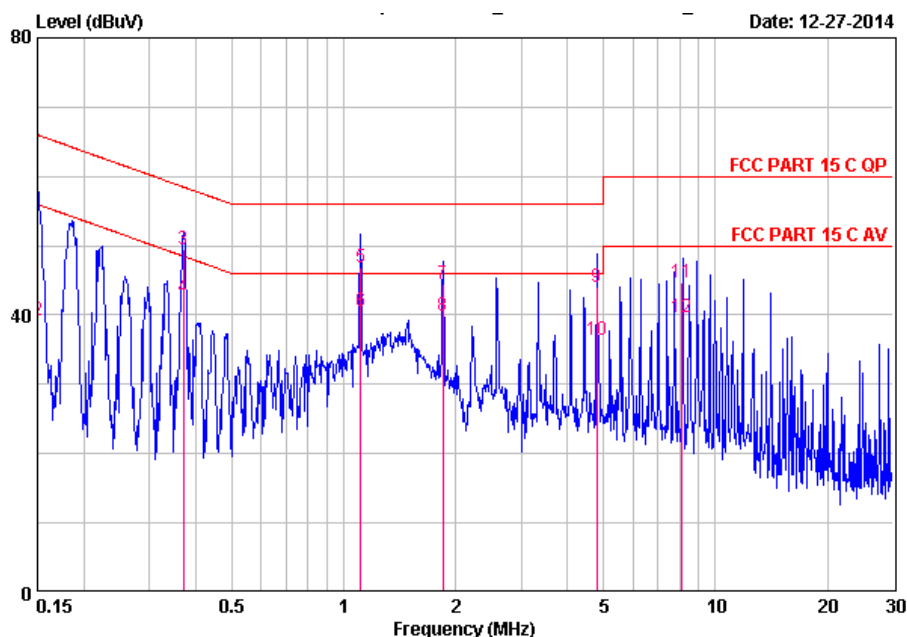


Freq	Read Level	Cable Loss	LISN Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.1516	49.78	0.30	0.12	50.20	65.91	-15.71	QP
0.1516	31.98	0.30	0.12	32.40	55.91	-23.51	AVERAGE
0.3692	50.98	0.30	0.12	51.40	58.52	-7.12	QP
0.3692	43.56	0.30	0.12	43.98	48.52	-4.54	AVERAGE
1.1114	41.18	0.02	0.23	41.43	46.00	-4.57	AVERAGE
1.1114	48.22	0.02	0.23	48.47	56.00	-7.53	QP
1.8483	46.78	0.09	0.26	47.12	56.00	-8.88	QP
1.8483	41.61	0.09	0.26	41.95	46.00	-4.05	AVERAGE
3.3281	42.98	0.10	0.36	43.44	56.00	-12.56	QP
3.3281	36.80	0.10	0.36	37.26	46.00	-8.74	AVERAGE
11.1386	36.59	0.13	0.55	37.26	50.00	-12.74	AVERAGE
11.1386	46.54	0.13	0.55	47.21	60.00	-12.79	QP

Level = Read Level + LISN Factor + Cable Loss.

## Neutral Line:

Quasi-peak/ Average measurement:



Freq	Read Level	Cable Loss	LISN Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.1500	57.72	0.30	0.12	58.14	66.00	-7.86	QP
0.1500	38.85	0.30	0.12	39.27	56.00	-16.73	AVERAGE
0.3712	48.90	0.30	0.19	49.39	58.47	-9.08	QP
0.3712	42.01	0.30	0.19	42.50	48.47	-5.97	AVERAGE
1.1114	46.50	0.02	0.27	46.79	56.00	-9.21	QP
1.1114	40.20	0.02	0.27	40.49	46.00	-5.51	AVERAGE
1.8483	44.00	0.09	0.29	44.38	56.00	-11.62	QP
1.8483	39.55	0.09	0.29	39.93	46.00	-6.07	AVERAGE
4.7969	43.42	0.10	0.43	43.95	56.00	-12.05	QP
4.7969	35.93	0.10	0.43	36.46	46.00	-9.54	AVERAGE
8.1203	44.14	0.10	0.51	44.75	60.00	-15.25	QP
8.1203	39.09	0.10	0.51	39.70	50.00	-10.30	AVERAGE

Level = Read Level + LISN Factor + Cable Loss.

**Remark: Aux in port and usb port are terminated by resistor during test.**

## 6.2 Radiated Emissions, 9kHz to 1GHz

Test Requirement: FCC Part15 Subpart C Section 15.209 and 15.249(d)  
 Test Method: ANSI C63.4:2003  
 Test Date: 2015-01-15  
 Frequency Range: The lowest frequency generated by EUT, 12MHz to 1GHz  
 Measurement Distance: 3m  
 Detector: Peak for pre-scan  
 (200Hz resolution bandwidth and 1kHz video bandwidth for measurement between 9kHz – 150kHz)  
 (9kHz resolution bandwidth and 100kHz video bandwidth for measurement between 150kHz – 30MHz)  
 120kHz resolution bandwidth and 1MHz video bandwidth for measurement between 30MHz to 1GHz)  
 Quasi-Peak if maximised peak within 6dB of limit

Limit :

Frequency range MHz	Quasi-peak limits dB (µV/m)
0.009 – 0.490	-72.4 – 20logF(MHz)
0.490 – 1.705	-12.4 – 20logF(MHz)
1.705 – 30.0	-10.5
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54
Note: 1) At transitional frequencies the lower limit applies. 2) F is the frequency of the spurious emission measured in MHz. 3) Limit from 0.009 – 30 MHz is converted from measuring distance 300m or 30m to 3m with the formula provided in FCC Part 15, section 15.31(f)(2)	

### 6.2.1 EUT Operation

Operating Environment:

Temperature: 21 °C Humidity: 47%

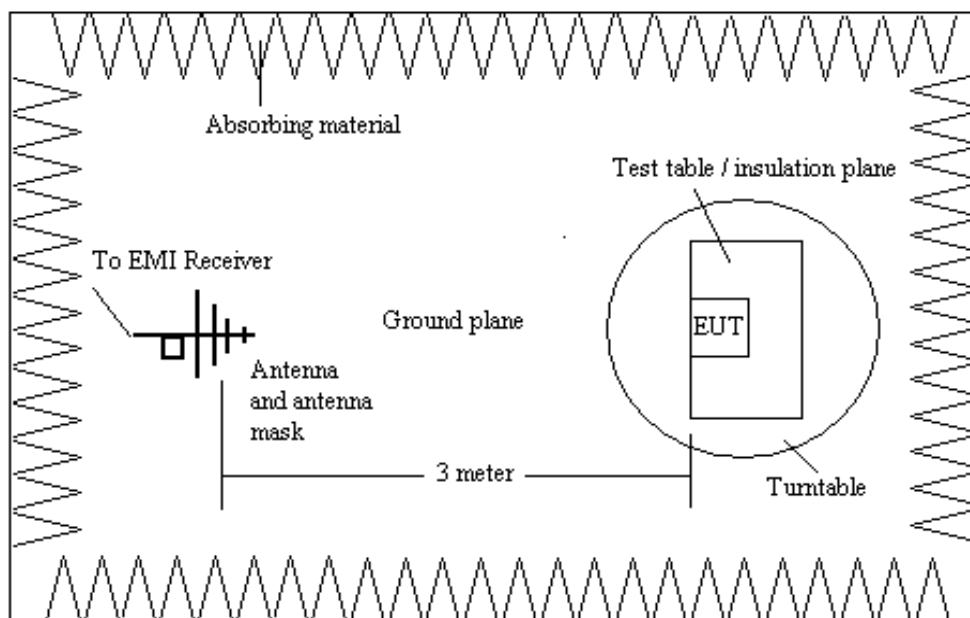
EUT Operation: Pre-test with adaptor or battery operate and Peak detector with the following mode(s):

- 1: Transmission with GFSK (packet DH1/DH3/DH5)
- 2: Transmission with II/4-DQPSK (packet 2DH1/2DH3/2DH5)
- 3: Transmission with 8DPSK (packet 3DH1/3DH3/3DH5)

Final test with adaptor and Quasi-Peak detector with the following mode(s):

- 1: Transmission with GFSK (packet DH5)

## 6.2.2 Test Setup and Procedure



1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
2. The EUT was connected to AC power source through a mains power outlet which was bonded to the ground reference plane. The EUT was placed upon a non-metallic table 0.8m above the ground reference plane.
3. Loop antennat and Bilog antenna was used for the frequency range from the lowest generated frequency to 30MHz and 30MHz to 1GHz respectively
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters for Bilog antenna (Loop antenna is still maintain in 1m high) in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

### 6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 6dB of the limit line. Final measurement was conducted in the open area test site with data as follows:

#### Test results:

##### (1) Operation Frequency : 2402MHz

Frequency (MHz)	Antenna Polarization	Correction Factor (dB/m)	Receiver QP Reading (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)
30.000	V	19.1	3.0	22.1	40.0	-17.9
44.438	V	13.6	17.2	30.8	40.0	-9.2
113.999	V	10.9	28.2	39.1	43.5	-4.4
143.938	V	11.4	11.5	22.9	43.5	-20.6
287.875	V	13.7	11.1	24.8	46.0	-21.2
715.000	H	20.9	3.1	24.0	46.0	-22.0

#### Test results:

##### (2) Operation Frequency : 2441MHz

Frequency (MHz)	Antenna Polarization	Correction Factor (dB/m)	Receiver QP Reading (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)
30.125	V	19.0	3.1	22.1	40.0	-17.9
43.313	V	14.0	16.3	30.3	40.0	-9.7
95.995	V	9.7	12.2	21.9	43.5	-21.6
114.000	V	10.9	28.3	39.2	43.5	-4.3
287.938	V	13.7	7.5	21.2	46.0	-24.8
609.313	V	19.7	3.5	23.2	46.0	-22.8

**Test results:**

**(3) Operation Frequency : 2480MHz**

Frequency (MHz)	Antenna Polarization	Correction Factor (dB/m)	Receiver QP Reading (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)
30.063	V	19.1	3.1	22.2	40.0	-17.8
42.938	V	14.1	16.4	30.5	40.0	-9.5
114.000	V	10.9	27.5	38.4	43.5	-5.1
143.938	V	11.4	13.4	24.8	43.5	-18.7
288.000	V	13.7	7.5	21.2	46.0	-24.8
562.813	V	19.5	3.8	23.3	46.0	-22.7

**Note:**

- 1) All readings are Quasi-Peak values.
- 2) Correction Factor = Antenna Factor + Cable Loss.
- 3) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively.
- 4) Other emissions more than 20dB below the limit are not shown on the above table and only worst six emissions below 1GHz are listed.
- 5) Aux in port and usb port is terminated by resistor during test.

### 6.3 Radiated Emissions above 1 GHz

Test Requirement: FCC Part15 Subpart C Section 15.209 & 15.249(a) & (d)  
Test Method: ANSI C63.4:2003  
Test Date: 2015-01-15  
Frequency Range: 1GHz – 26GHz  
Measurement Distance: 3m  
Detector: Peak for pre-scan ( $\geq 1\text{MHz}$  resolution bandwidth,  $\geq 1\text{MHz}$  video bandwidth)  
Average and Peak detector for final test

Limit :

Fundamental Frequency :

Frequency range MHz	Limits (Peak) dB ( $\mu\text{V/m}$ )	Limits (Average) dB ( $\mu\text{V/m}$ )
2400 to 2483.5	114	94

Spurious Emission :

Frequency range MHz	Limits (Peak) dB ( $\mu\text{V/m}$ )	Limits (Average) dB ( $\mu\text{V/m}$ )
Over 1000	74	54

#### 6.3.1 EUT Operation

Operating Environment:

Temperature: 21 °C Humidity: 47 %

EUT Operation: Pre-test with adaptor or battery operate and Peak detector with the following mode(s):

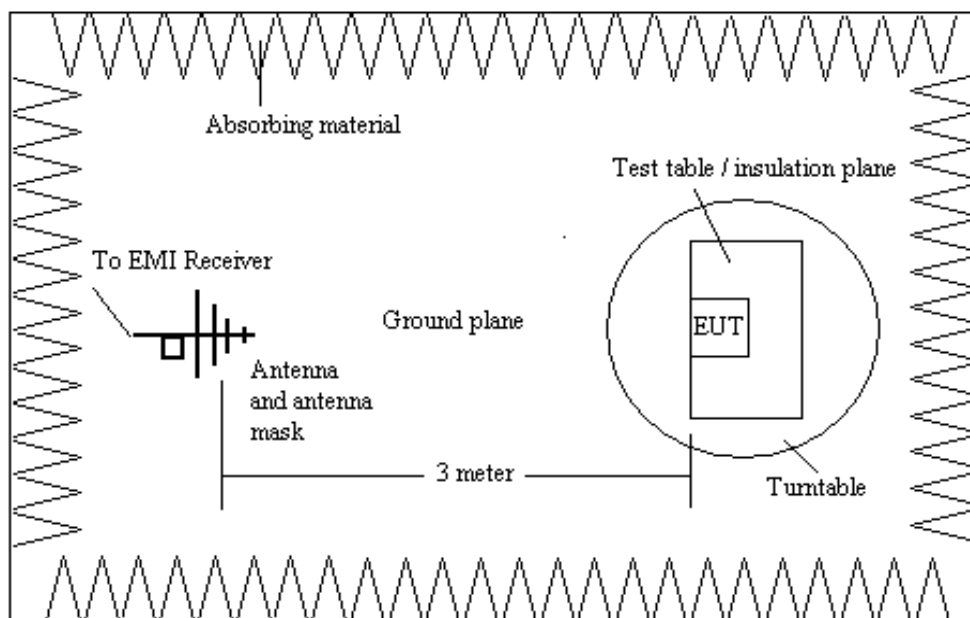
- 1: Transmission with GFSK (packet DH1/DH3/DH5)
- 2: Transmimssion with  $\Pi/4$ -DQPSK (packet 2DH1/2DH3/2DH5)
- 3: Transmission with 8DPSK (packet 3DH1/3DH3/3DH5)

Final test with adaptor and Peak and Avearge detector with the following mode(s):

- 1: Transmission with GFSK (packet DH5)



### 6.3.2 Test Setup and Procedure



1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
2. The EUT was connected to AC power source through a mains power outlet which was bonded to the ground reference plane. The EUT was placed upon a non-metallic table 0.8m above the ground reference plane.
3. Horn antenna was used for the frequency over 1GHz
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

### 6.3.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured with 2 orthogonal polarities and frequencies of average emissions from the EUT were measured as follows:

#### Test results :

##### (1) Fundamental Frequency

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)		Limit (dBμV/m)		Remark
		Peak	Average	Peak	Average	
2402.0	H	75.26	73.94	114	94	Pass
2402.0	V	78.57	76.18	114	94	Pass
2441.0	H	74.66	73.01	114	94	Pass
2441.0	V	78.52	76.11	114	94	Pass
2480.0	H	74.55	72.25	114	94	Pass
2480.0	V	78.55	77.56	114	94	Pass

##### (2) Spurious Emission

##### Operation Frequency : 2402.0 MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)		Limit (dBμV/m)		Remark
		Peak	Average	Peak	Average	
3328	V	56.43	49.48	74	54	Pass
3835	V	48.95	32.67	74	54	Pass
4804	V	55.51	48.24	74	54	Pass
7206	H	56.64	44.02	74	54	Pass
8900	H	58.72	43.57	74	54	Pass
9608	V	57.8	43.39	74	54	Pass

**Operation Frequency : 2441.0 MHz**

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)		Limit (dBμV/m)		Remark
		Peak	Average	Peak	Average	
3328	V	55.29	51.80	74	54	Pass
4882	V	57.49	49.99	74	54	Pass
5634	V	51.63	37.70	74	54	Pass
7325	H	55.41	42.36	74	54	Pass
8705	H	58.42	42.59	74	54	Pass
9763	H	57.81	44.78	74	54	Pass

**Operation Frequency : 2480.0 MHz**

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)		Limit (dBμV/m)		Remark
		Peak	Average	Peak	Average	
3328	V	55.44	49.78	74	54	Pass
4160	V	51.73	36.34	74	54	Pass
4960	V	58.59	52.14	74	54	Pass
7440	H	54.16	40.97	74	54	Pass
8064	H	54.62	40.14	74	54	Pass
9920	H	56.40	43.25	74	54	Pass

**Note:**

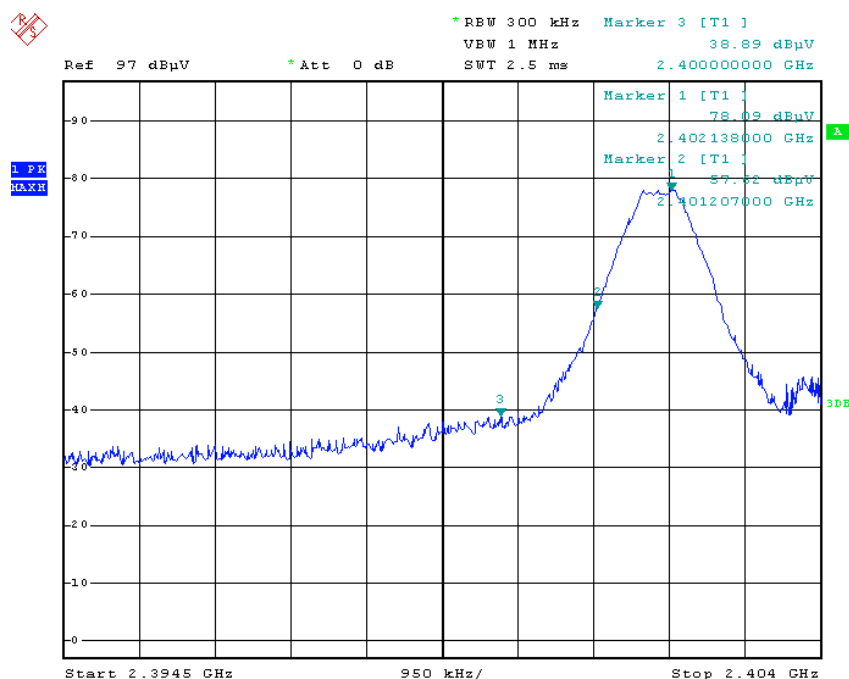
- 1) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively.
- 2) Other emissions more than 20dB below the limit are not shown on the above table and only worst six emissions below 1GHz are listed.
- 3) Aux in port and usb port are terminated by resistor during test.

## 6.4 Band Edge / 20 dB Bandwidth

Test Requirement: FCC Part15 Subpart C Section 15.215, 15.249(d)  
Test Method: ANSI C63.4:2003 and Marker-Delta Method  
Test Date: 2015-01-16  
EUT Operation: 1: Transmission with GFSK  
2: Transmission with  $\Pi/4$ -DQPSK;  
3: Transmission with 8DPSK;  
Result: Pass

**Test Plot** : (Worst case: Transmission with 8DPSK)

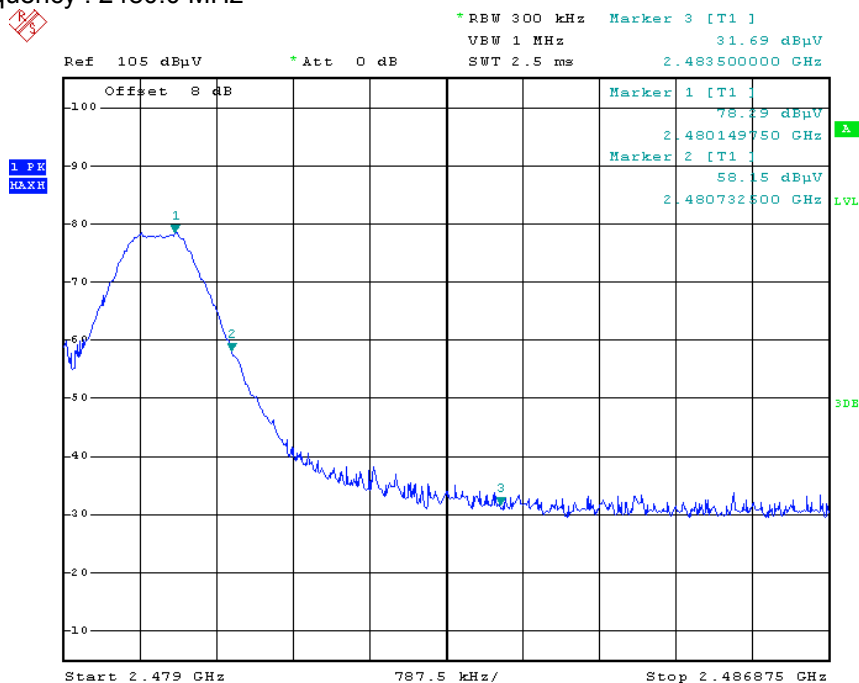
Operation frequency : 2402.0 MHz



According to the page 18 of this report, the emission of the fundamental frequency 2402MHz is 78.57dBuV/m for peak respectively. Based on the delta method, the emission at the bandedge, 2400MHz, is more than 39dB below the fundamental and 20dB bandwidth falls in assigned band. It is deemed to comply with section 15.215. Besides, it is below the limit of 74dBuV/m and 54dBuV/m for peak and average level under 15.209. It is deemed to comply with section 15.249(d).

## Test Plot : (Worst case: Transmission with 8DPSK)

Operation frequency : 2480.0 MHz



According to the page 18 of this report, the emission of the fundamental frequency 2480MHz is 78.55dBuV/m for peak level respectively. Based on the delta method, the emission at the bandedge, 2483.5MHz, is more than 40dB below the fundamental and 20dB bandwidth falls in the assigned band. It is deemed to comply with section 15.215. Besides, it is below the limit of 74dBuV/m and 54dBuV/m for peak and average level under 15.209. It is deemed to comply with section 15.249(d).

## 7 Photographs

### 7.1 Conduct Emission Test Setup



### 7.2 Radiatd Emission Test Setup



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## EUT Constructional Details



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-- END OF REPORT --

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