

FCC Test Report

Application No.: HKES141100227901
Applicant: FUSIONACE TECHNOLOGY CO., LTD.
Address: RM. 1, 11/F., No.169 Sec. 4, Zhongxiao E. Rd.,
Da' an Dist., Taipei City 106
Taiwan (R.O.C.)

Product Information:

Product Description: Smart Activity Watch
Model: FA-SA31
Product Class : Low Power Communication Device – Transmitter (2.4 GHz)
FCC ID: 2ADMPFA-SA31

Requirement: CFR 47 FCC PART 15 SUBPART C, 2014
Intentional Radiators (Section 15.249)

Date of Receipt: 2014-12-12

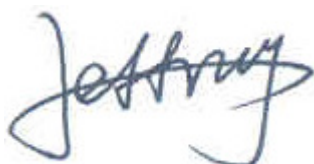
Date of Test: 2014-12-17 to 2014-12-18

Date of Issue: 2014-12-19

Test Result :	PASS*
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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	NA
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

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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	2
3 CONTENTS	3
4 GENERAL INFORMATION	4
4.1 GENERAL DESCRIPTION OF EUT	4
4.2 DETAILS OF EUT	4
4.3 CONDITIONS OF EUT	4
4.4 DESCRIPTION OF SUPPORT UNITS	4
4.5 STANDARDS APPLICABLE FOR TESTING	4
4.6 TEST LOCATION	4
4.7 TEST FACILITY	5
4.8 DEVIATION FROM STANDARDS	5
4.9 ABNORMALITIES FROM STANDARD CONDITIONS	5
4.10 DECLARATION OF FAMILY GROUPING	5
4.11 ABBREVIATIONS	5
5 EQUIPMENTS USED DURING TEST	6
6 TEST RESULTS	8
CONDUCTED EMISSIONS MAINS TERMINALS, 150KHZ TO 30MHZ	8
6.2 RADIATED EMISSIONS, 9KHZ TO 1GHZ	9
6.2.1 EUT Operation	9
6.2.2 Test Setup and Procedure	10
6.2.3 Measurement Data	11
6.3 RADIATED EMISSIONS ABOVE 1 GHZ	13
6.3.1 EUT Operation	13
6.3.2 Test Setup and Procedure	14
6.3.3 Measurement Data	15
6.4 BAND EDGE / 20 DB BANDWIDTH	17
7 PHOTOGRAPHS	19
7.1 RADIATED EMISSION TEST SETUP	19
7.2 EUT CONSTRUCTIONAL DETAILS	20
.....	20

4 General Information

4.1 General Description of EUT

Product Description:	Smart Activity Watch
Model No:	FA-SA31
Serial No.:	--

4.2 Details of EUT

Power Supply:	AC 120V 60Hz to DC 5V adaptor: IECC-005 for battery charging DC 3.7V (Rechargeable battery x1)
Cable	2 wires unshield USB cable (0.6m)
Operating Frequency	2402-2480MHz
Antenna Type:	Integral antenna
Bluetooth version	V4.0+BLE
Modulation Type:	GFSK

4.3 Conditions of EUT

The received sample was under good condition.

4.4 Description of Support Units

1. All field strength measures in this test report were done by the sample which hardware set the frequency fixed and hopping stopped with continuous transmission.
2. The AC/DC adaptor is supplied by SGS IECC LTD.

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	2015/06/26
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

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6 Test Results

Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 C

Test Method: ANSI C63.4

Test Date: Not Applicable

Remark:

The EUT is battery operated and not intend to operate with adaptor according to user manual.

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: 2014-12-18
Frequency Range: The lowest frequency generated by EUT, 32.768KHz 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

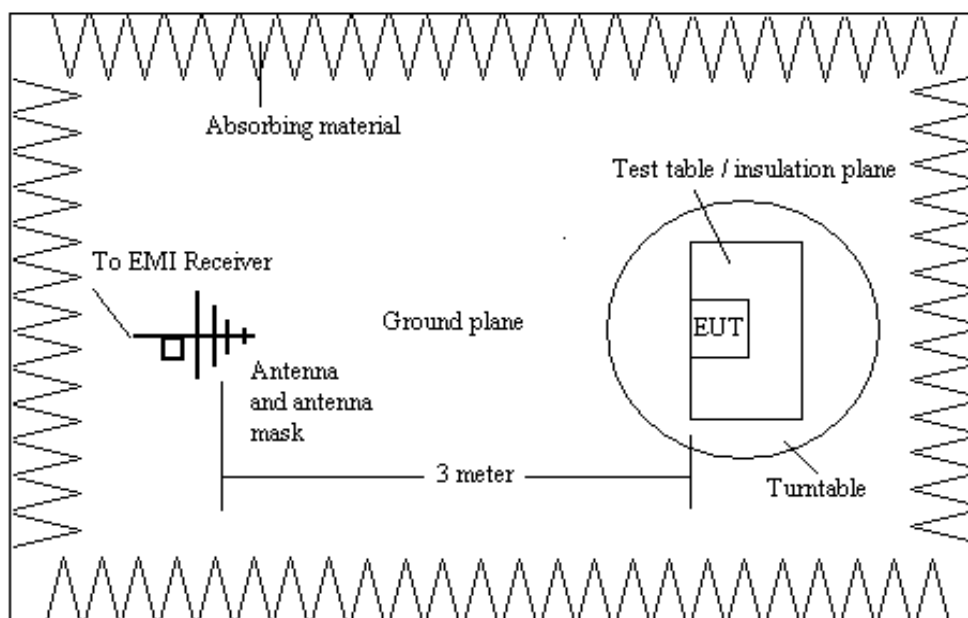
Operating Environment:

Temperature: 19 °C Humidity: 50%

EUT Operation: Pre-test with Peak detector with the following mode(s):
1: Transmission with GFSK

Final test with Quasi-Peak detector with the following mode(s):
1: Transmission with GFSK

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 antenna 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.

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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	1.9	21.0	40.0	-19.0
100.000	V	9.8	3.8	13.6	43.5	-29.9
200.000	V	9.4	3.5	12.9	43.5	-30.6
300.000	V	13.9	3.9	17.8	46.0	-28.2
500.000	H	18.4	3.8	22.2	46.0	-23.8
800.000	V	21.6	1.8	23.4	46.0	-22.6

Test results:

(2) Operation Frequency : 2440MHz

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	1.9	21.0	40.0	-19.0
100.000	V	9.8	3.9	13.7	43.5	-29.8
200.000	V	9.4	3.6	13.0	43.5	-30.5
300.000	H	13.9	3.8	17.7	46.0	-28.3
500.000	V	18.4	3.9	22.3	46.0	-23.7
800.000	V	21.6	2.1	23.7	46.0	-22.3

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)
30.000	H	19.1	1.8	20.9	40.0	-19.1
100.000	V	9.8	3.9	13.7	43.5	-29.8
200.000	V	9.4	3.6	13.0	43.5	-30.5
300.000	V	13.9	3.8	17.7	46.0	-28.3
500.000	V	18.4	3.8	22.2	46.0	-23.8
800.000	V	21.6	2.2	23.8	46.0	-22.2

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.

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: 2014-12-17
Frequency Range: 1GHz – 26GHz
Measurement Distance: 3m
Detector: Peak for pre-scan (1MHz resolution bandwidth, 1MHz video bandwidth)
Average and Peak detector for final test

Limit :

Fundamental Frequency :

Frequency range MHz	Limits (Peak) dB (μV/m)	Limits (Average) dB (μV/m)
2400 to 2483.5	114	94

Spurious Emission :

Frequency range MHz	Limits (Peak) dB (μV/m)	Limits (Average) dB (μV/m)
Over 1000	74	54

6.3.1 EUT Operation

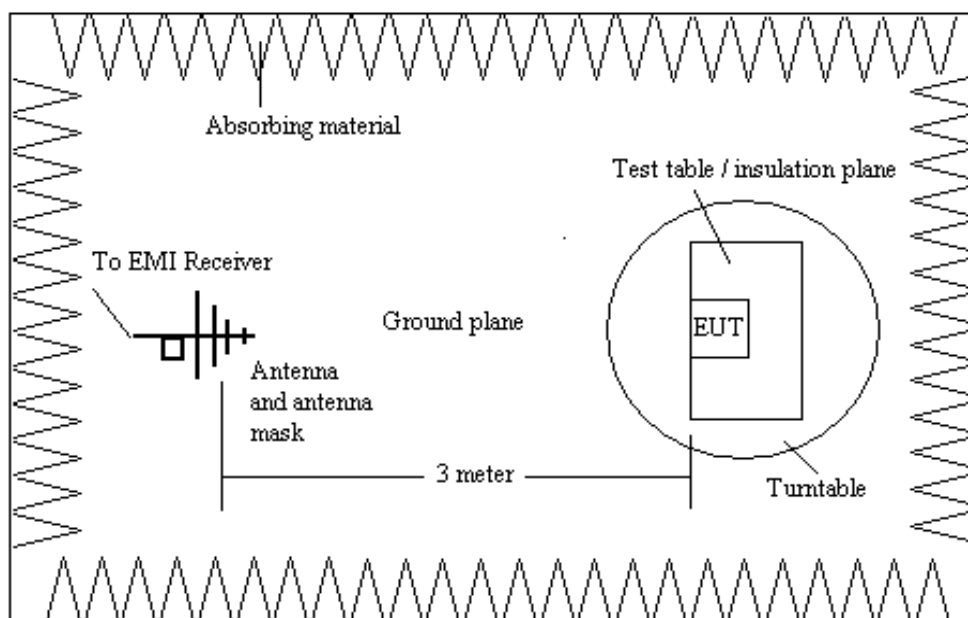
Operating Environment:

Temperature: 22.6 °C Humidity: 56 %

EUT Operation: Pre-test with Peak detector with the following mode(s):
1: Transmission with GFSK

Final test with Peak and Average detector with the following mode(s):
1: Transmission with GFSK

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.

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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	88.1	--	114	94	Pass
2402.0	V	86.1	--	114	94	Pass
2440.0	H	86.9	--	114	94	Pass
2440.0	V	84.5	--	114	94	Pass
2480.0	H	87.0	--	114	94	Pass
2480.0	V	85.2	--	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	
1589.29	H	45	--	74	54	Pass
3561.63	H	47.3	--	74	54	Pass
4804	H	49.6	--	74	54	Pass
7206	H	52.2	--	74	54	Pass
9608	H	53.6	--	74	54	Pass
11515.68	H	53.9	--	74	54	Pass

Operation Frequency : 2440.0 MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)		Limit (dBμV/m)		Remark
		Peak	Average	Peak	Average	
1715.41	H	41.4	--	74	54	Pass
3454.48	H	45.8	--	74	54	Pass
4880	H	49.5	--	74	54	Pass
7320	H	49.2	--	74	54	Pass
9760	H	52.0	--	74	54	Pass
11283.5	H	53.7	--	74	54	Pass

Operation Frequency : 2480.0 MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)		Limit (dBμV/m)		Remark
		Peak	Average	Peak	Average	
1913.3	H	42.4	--	74	54	Pass
3543.5	H	46.1	--	74	54	Pass
4960	H	49.4	--	74	54	Pass
7440	H	50.1	--	74	54	Pass
9920	H	52.0	--	74	54	Pass
10723.4	H	53.1	--	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) The Peak value of Emission is below average limit, hence the average value are not shown on the above table.

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

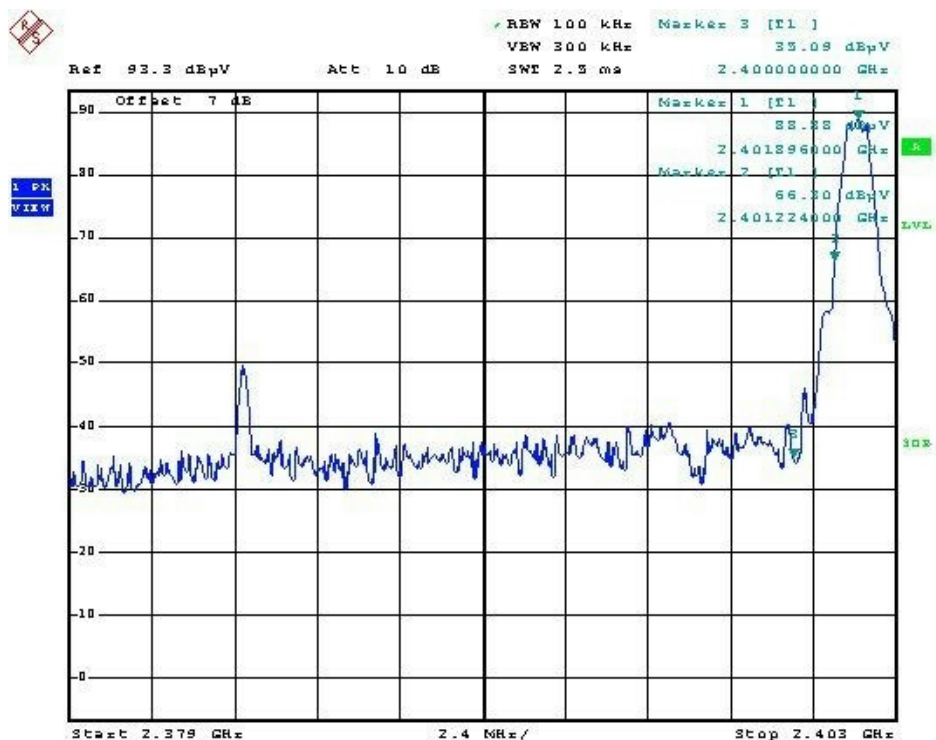
Test Date: 2014-12-18

EUT Operation: 1: Transmission with GFSK

Result: Pass

Test Plot : (Worst case: Transmission with GFSK)

Operation frequency : 2402.0 MHz



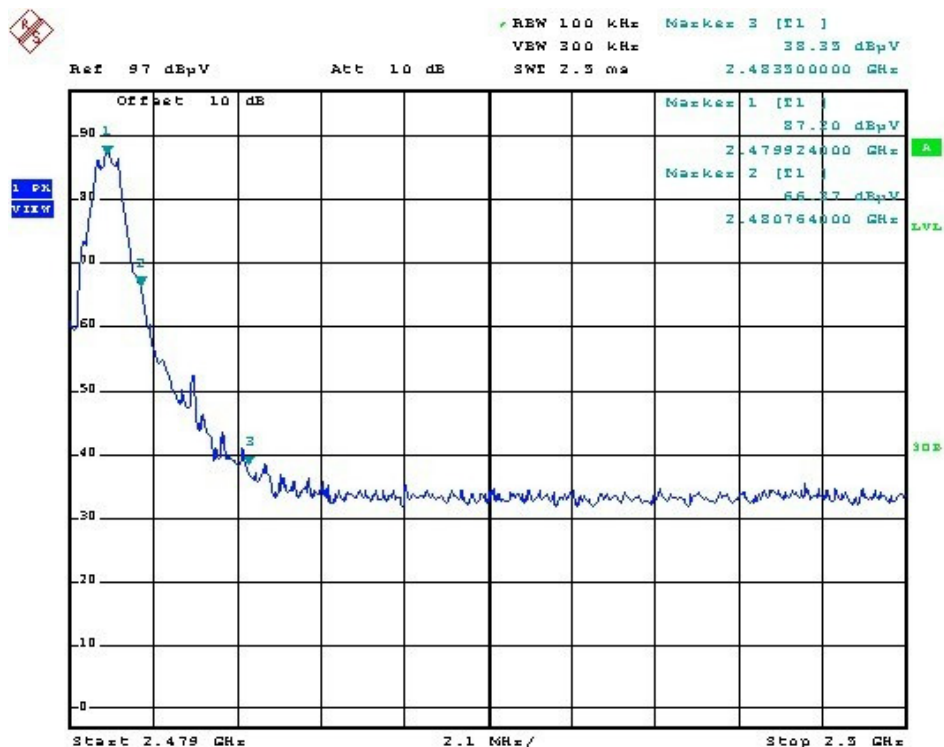
According to the page 15 of this report, the emission of the fundamental frequency 2402MHz is 88.1dBuV/m for peak level respectively. Based on the delta method, the emission at the bandedge, 2400MHz, is more than 40dB below the fundamental and 20dB bandwidth falls in assigned band. It is deemed to comply 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).

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

Operation frequency : 2480.0 MHz



According to the page 15 of this report, the emission of the fundamental frequency 2480MHz is 87dBuV/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 Radiatd Emission Test Setup



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7.2 EUT Constructional Details



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