

#### The Test Report Prepared by

### Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

Report No.: YY120628F

Applicant: ReFlex Wireless Inc.

Product: **PPG** Recorder

Model No: RX101

Trademark: reflex...

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

RSS-210 Issue 8

It is herewith confirmed and found to comply with the Test result:

requirements set up by ANSI C63.4&FCC Part 15 Subpart C, 15.247 regulations for the evaluation

electromagnetic compatibility

Approved By

Ericlim

Eric Lin Manager

Dated: August 15, 2012

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

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### **Test Report Conclusion**

#### Content

1.0	General Details	3
1.1	Applicant Details	3
1.2	Description of EUT	3
1.3	Submitted Sample	3
1.4	Test Duration.	3
1.5	Test Uncertainty.	3
1.6	Test By	3
2.0	List of Measurement Equipment	4
3.0	Technical Details	5
3.1	Summary of Test Results	5
3.2	Test Standards	5
4.0	Test Lab Details	5
5.0	Power Line Conducted Emission Test.	6
5.1	Schematics of the Test.	6
5.2	Test Method and Test Procedure.	6
5.3	Configuration of the EUT	6
5.4	EUT Operating Condition.	7
5.5	Conducted Emission Limit.	7
5.6	Test Result.	7
6.0	Radiated Emission test.	10
6.1	Test Method and Test Procedure	10
6.2	Configuration of the EUT	10
6.3	EUT Operation Condition.	10
6.4	Radiated Emission Limit	11
7.0	20dB Bandwidth Measurement	23
8.0	Maximum Peak Output Power	34
9.0	Carrier Frequency Separation.	36
10.0	Number of Hopping Channel	47
11.0	Time of Occupancy (Dwell Time)	51
12.0	Out of Band Measurement.	56
13.0	Antenna Requirement.	78
14.0	RF Exposure.	79
15.0	99% Bandwidth Measurement.	80
16.0	FCC Label.	91
17.0	Photo of Test Setup and EUT View.	92

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Report No: YY1200628F

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Page 3 of 102

#### 1.0 General Details

Date: 2012-08-15

1.1 Applicant Details

Applicant: ReFleX Wireless Inc.

Address: 1400 – 1055 West Hastings Street, Vancouver, BC V6E 2E9

Telephone: 778-331-3436

Fax: --

1.2 Description of EUT

Product: PPG Recorder

Manufacturer: ReFleX Wireless Inc.

Brand Name:

reflex...

Model Number: RX101 Additional Model Name N/A Additional Trade Name N/A

Rating: Input: DC3.7V

Power Supply N/A

Type of Modulation GFSK, Π/4QPSK, 8DPSK

Frequency range 2402-2480MHz

Number of Channel 79

Frequency Selection By software

Antenna type PCB Printed antenna, and the maximum Gain of this antenna is 2.5dBi

Emission Designator 1M24F1D

1.3 Submitted Sample: 2 Samples

1.4 Test Duration: 2012-08-02 to 2012-08-14

1.5 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.6 Test Engineer

The sample tested by

Print Name: Willis Gui

Withi. Gui

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Page 4 of 102

Report No: YY1200628F

Date: 2012-08-15

2.0			<b>Test Equipments</b>		
Instrument Type	Manufacturer	Model	Serial No.	Date of	Due Date
				Cal.	
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2012-04-21	2013-04-20
TWO	ROHDE&SCHWARZ	EZH3-Z5	100294		2013-04-20
Line-V-NETW	ROHDE&SCHWARZ	EZIIS-ZS	100234	2012-04-21	
TWO	ROHDE&SCHWARZ	EZH3-Z5	100253		2013-04-20
Line-V-NETW	ROHDLæschwarz	LZH3-Z3	100255	2012-04-21	
					2013-04-20
Ultra Broadband	ROHDE&SCHWARZ	HL562	100157		
ANT				2012-04-21	
					2013-04-20
ESDV Test	ROHDE&SCHWARZ	ESDV	100008		
Receiver				2012-04-21	
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2012-04-21	2013-04-20
Loop Antenna	EMCO	6502	00042960	2012-04-21	2013-04-20
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2012-04-21	2013-04-20
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2012-04-21	2013-04-20
Horn Antenna	SCHWARZBECK	BBHA	9120D-631		2013-04-20
Tiom Antenna	SCHWARZBECK	9120D	7120D-031	2012-04-21	
Power meter	Anritsu	ML2487A	6K00003613	2012-04-21	2013-04-20
Power sensor	Anritsu	MA2491A	32263	2012-04-21	2013-04-20
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2012-04-21	2013-04-20
LISN	AFJ	LS16C	10010947251	2012-04-21	2013-04-20
LISN (Three		NSLK 8126	8126453		2013-04-20
Phase)	Schwarebeck	113LK 0120	0120433	2012-04-21	
9*6*6 Anechoic			N/A	2012-04-21	2013-04-20
EMI Test Receiver	RS	ESCS30	100139	2012-04-21	2013-04-20
LISN	AFJ	LS16C	10010947251	2012-04-21	2013-04-20

Page 5 of 102

#### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:

Requirement	CFR 47 Section	Result	Notes
Antenna Requirement	15.203, 15.247(b)(4)	PASS	Complies
	& RSS-210 Issue 8		
Maximum Book Out Bowen	r 15.247 (b)(1), (4) PASS		Complies
Maximum Peak Out Power	& RSS-210 Issue 8	PASS	
	15.247(a)(1)		
Carrier Frequency Separation	& RSS-210 Issue 8	PASS	Complies
	& K55-210 Issue 0		
20dB Channel Bandwidth	15.247 (a)(1)	PASS	Complies
	& RSS-210 Issue 8		
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	PASS	Complies
	& RSS-210 Issue 8		
Time of Occupancy (Dwell Time)	15.247(a)(iii)	PASS	Complies
	& RSS-210 Issue 8		
Spurious Emission, Band Edge, and	15.247(d),15.205(a),	PASS	Complies
Restricted bands	15.209 (a),15.109		
	& RSS-210 Issue 8		
<b>Conducted Emissions</b>	15.207(a), 15.107	PASS	Complies
	& RSS-210 Issue 8		
RF Exposure	15.247(i), 1.1307(b)(1)	PASS	Complies
	& RSS-102		

#### 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247 and RSS-210 Issue 8

#### 4.0 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

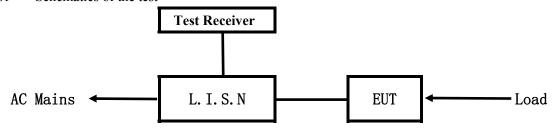
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,

Shenzhen, CHINA.

Note: All tests were done at SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

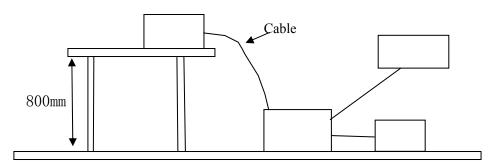


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2003.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

Report No: YY1200628F Date: 2012-08-15

### Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

Page 7 of 102

#### A. EUT

Device	Manufacturer	Model	FCC ID/IC
PPG Recorder	ReFleX Wireless Inc.	RX101	IC: 10191A-RX10102A
			FCC ID: P6S-RX101

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

#### C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

#### 5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107, 15.207 and RSS-210

Frequency		Class A Lim	its (dB µ V)	Class B Limits (dB µ V)	
(1	MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15	~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50	~ 5.00	73.0	60.0	56.0	46.0
5.00 ~	~ 30.00	73.0	60.0	60.0	50.0

Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

#### 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: the worse cases was selected to conducted the test

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Page 8 of 102

#### A: Conducted Emission on Live Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

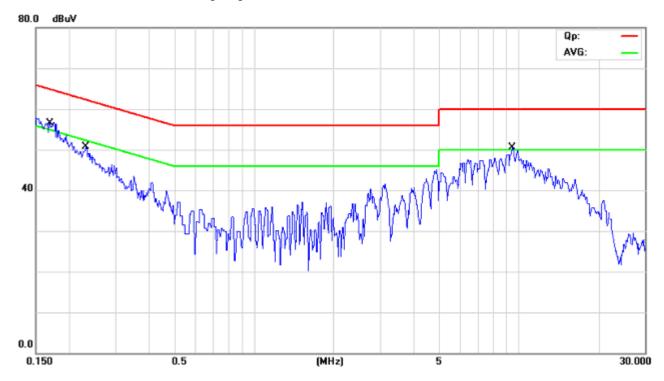
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Charging Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Lina	Reading(	dBμV)	Limit(	dBμV)
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.171	Live	43.02	22.12	64.91	54.91
0.231	Live	40.19	26.29	62.41	52.41
9.438	Live	42.44	36.84	60.00	52.00
9.499	Live	42.41	36.61	60.00	50.00

### B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

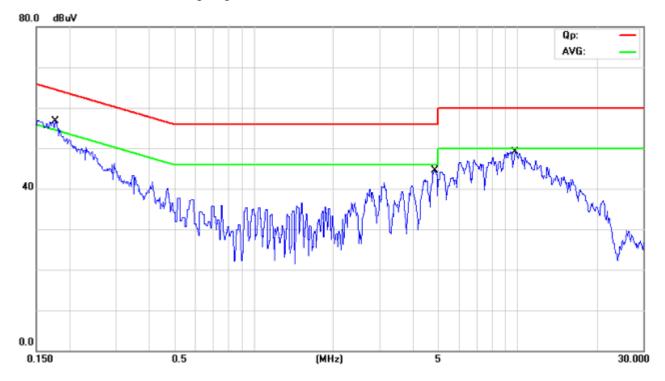
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Charging Mode** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	ency Line Reading(dBμV)		Limit(dBμV)		
(MHz)	Line	Quasi-peak Average		Quasi-peak	Average
0.176	Neutral	44.23	30.21	64.63	54.63
4.802	Neutral	36.42	27.82	56.00	46.00
9.778	Neutral	42.39	36.19	60.00	50.00

Report No: YY1200628F Page 10 of 102 Date: 2012-08-15

#### 6 **Radiated Emission Test**

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.4 -2003. The radiated test was performed at Timeway (1) Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up (2) is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- **(4)** The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with (5) all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

### **Block diagram of Test setup** Distance = 3mComputer Pre -Amplifier **EUT** Turn-table Receiver Ground Plane

- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 **EUT Operating Condition** Same as section 5.4 of this report.

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### Report No: YY1200628F

### Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

Page 11 of 102

Date: 2012-08-15

#### 6.4 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:

Frequencies in restricted band are complied to limit on Paragraph 15.109. 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. Battery was fully charged during the radiated test.
- 6. After pre-scan, GFSK modulation mode was the worse case and it was selected to conduct the radiated emission tests.

Page 12 of 102

**Test result** 

#### General Radiated Emission Data and Harmonics Radiated Emission Data

#### Radiated Emission In Horizontal (30MHz----1000MHz)

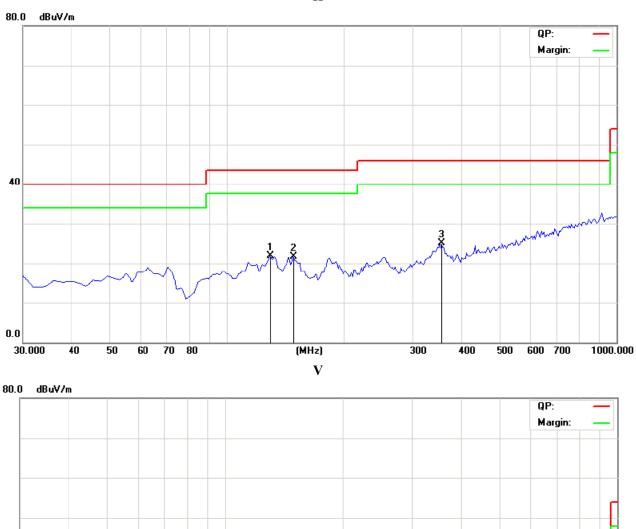
EUT set Condition: Receiving Mode

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
129.1382	21.83	Н	43.50
148.5772	21.68	Н	43.50
354.6293	25.21	Н	46.00
30.1831	34.20	V	40.00
72.7665	30.97	V	40.00

Page 13 of 102

Test Figure: Receiving mode







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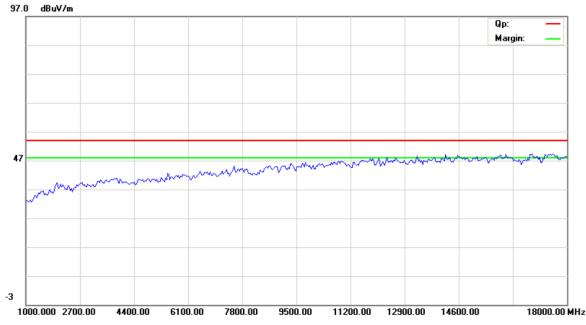
Report No: YY1200628F Date: 2012-08-15

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Page 14 of 102

#### Radiated Emission In Horizontal (1000MHz----18000MHz)

EUT set Condition: Receiving Mode



Frequency (MHz)	Level@3m (dB \mu V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
		Н	

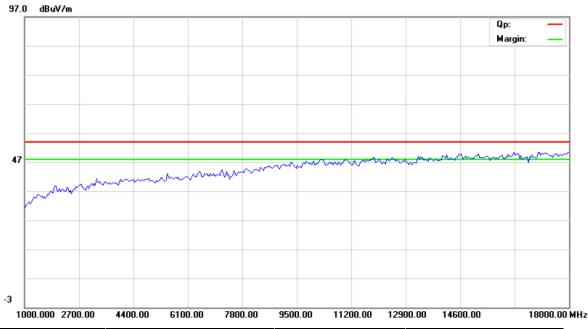
Report No: YY1200628F Date: 2012-08-15

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Page 15 of 102

#### Radiated Emission In Horizontal (1000MHz----18000MHz)

EUT set Condition: Receiving Mode



Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)	
		V		

Page 16 of 102

#### Test result

#### General Radiated Emission Data and Harmonics Radiated Emission Data

#### Radiated Emission In Horizontal (30MHz----1000MHz)

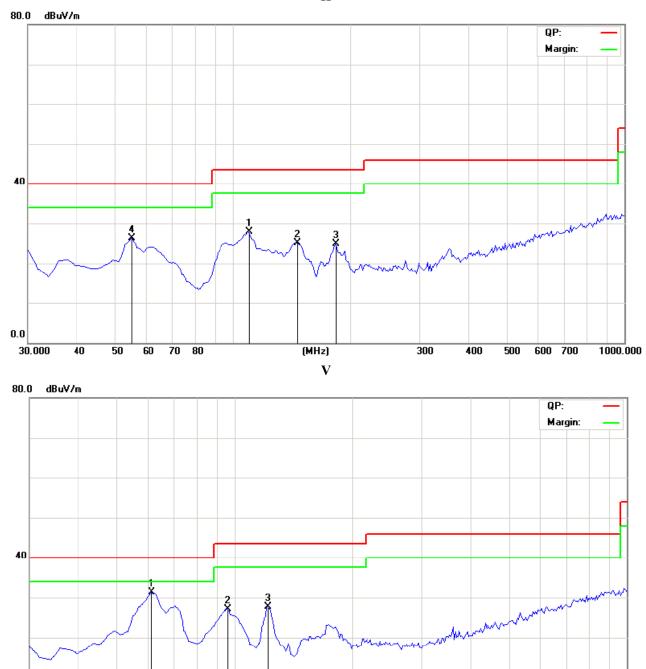
EUT set Condition: Transmitting Mode (GFSK)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
109.6994	27.93	Н	43.50
146.6333	25.20	Н	43.50
183.5671	24.85	Н	46.00
55.2750	26.30	Н	40.00
61.1022	31.34	V	40.00
96.0922 27.01		V	43.50
121.3627 27.66		V	43.50

Page 17 of 102

Test Figure: Transmitting mode





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70 80

50

60

0.0

30.000

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(MHz)

300

400

500

600 700

1000.000

Report No: YY1200628F Date: 2012-08-15

**Operation Mode: Transmitting under Low Channel (2402MHz)** 

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2402	89.92(PK)	V	Fundamental Frequency
2402	89.37(PK)	Н	Fundamental Frequency
4804	-1	Н	74(Peak)/ 54(AV)
4804	-	V	74(Peak)/ 54(AV)
7206	1	H/V	74(Peak)/ 54(AV)
9608	1	H/V	74(Peak)/ 54(AV)
12010	-1	H/V	74(Peak)/ 54(AV)
14412	1	H/V	74(Peak)/ 54(AV)
16814	1	H/V	74(Peak)/ 54(AV)
19216	1	H/V	74(Peak)/ 54(AV)
21618		H/V	74(Peak)/ 54(AV)
24020		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

#### **Operation Mode: Transmitting g under Middle Channel (2441MHz)**

		-	-	
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)	
2441	87.36 (PK)	Н	Fundamental Frequency	
2441	88.23 (PK)	V	Fundamental Frequency	
4882		Н	74(Peak)/ 54(AV)	
4882		V	74(Peak)/ 54(AV)	
7323		H/V	74(Peak)/ 54(AV)	
9764		H/V	74(Peak)/ 54(AV)	
12205		H/V	74(Peak)/ 54(AV)	
14646		H/V	74(Peak)/ 54(AV)	
17087		H/V	74(Peak)/ 54(AV)	
19528	19528		74(Peak)/ 54(AV)	
21969	21969		74(Peak)/ 54(AV)	
24410		H/V	74(Peak)/ 54(AV)	

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Page 19 of 102

#### **Operation Mode: Transmitting under High Channel**

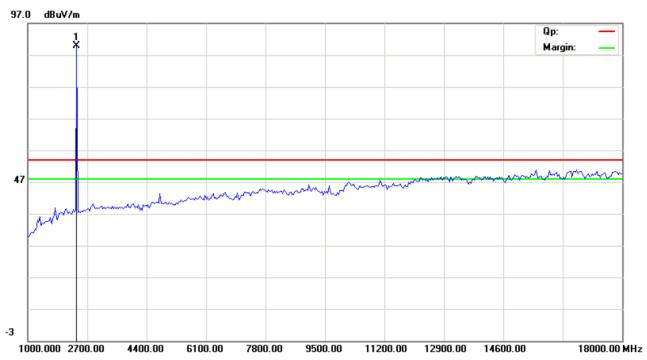
	8		
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2480	85.48 (PK)	Н	Even domental Engavenery
2480	86.82 (PK)	V	Fundamental Frequency
4960.		Н	74(Peak)/ 54(AV)
4960.		V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

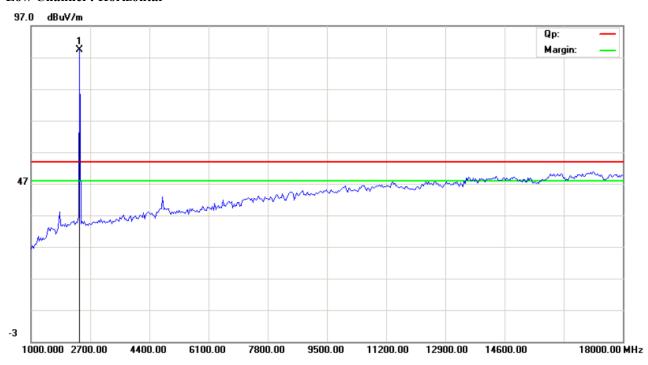
<sup>2.</sup> Remark "---" means that the emissions level is too low to be measured

Please refer to the following test plots for details:

#### Low Channel: Vertical



#### **Low Channel: Horizontal**

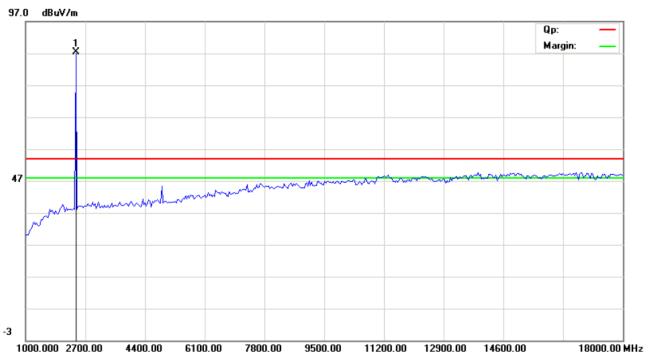


The report refers only to the sample tested and does not apply to the bulk.

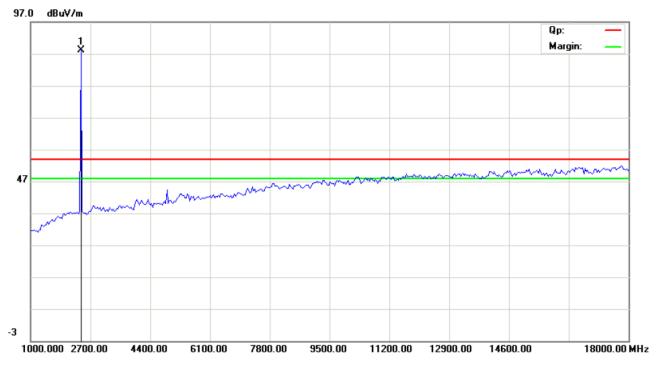
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Page 21 of 102

#### **Middle Channel: Horizontal**



#### Middle Channel :: Vertical

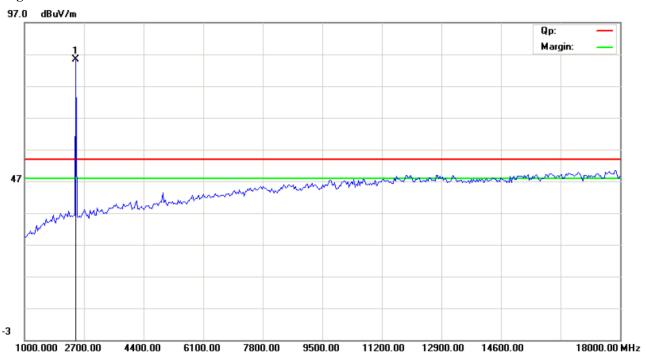


The report refers only to the sample tested and does not apply to the bulk.

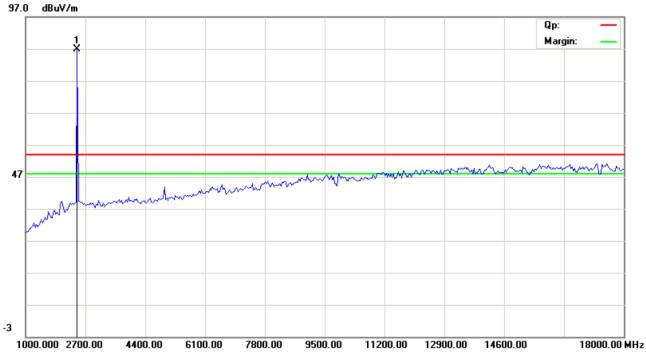
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Page 22 of 102

**High Channel: Horizontal** 



**High Channel: Vertical** 



Note: For the radiated emissions from 18GHz-25GHz, it is the floor noise that meets the requirement of FCC rule.

The report refers only to the sample tested and does not apply to the bulk.

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Page 23 of 102

#### 7.0 20dB Bandwidth Measurement

#### 7.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 7.2 Limits of 20dB Bandwidth Measurement

N/A

#### 7.3 Test Procedure.

- 1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = 3MHz, RBW=30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak Trace = max hold
- 3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

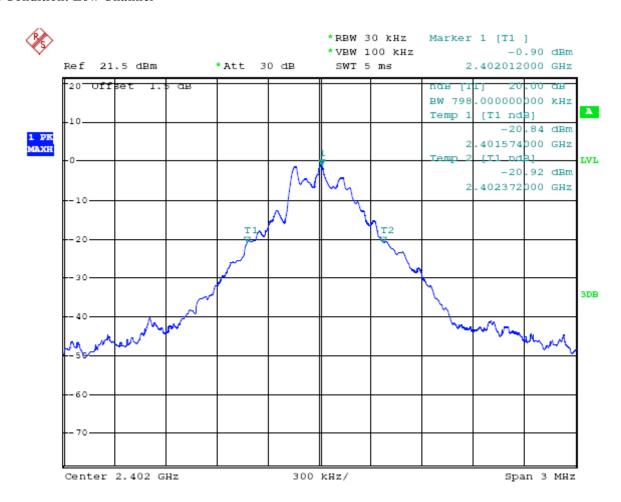
#### 7.4 Test Result: (GFSK MODE)

EU'	Т	PPG Recorder		Model		RX10	01		
Mod	de	Keep Transmitting		Input Voltage		DC3.	7V		
Temper	ature	24	24 deg. C, Humidi		midity 56%		Iumidity 56% RH		RH
Channel		el Frequency (MHz)			Maximum Limit (kHz)		Pass/ Fail		
Low		2402	798				Pass		
Middle		2441	762				Pass		
High		2480	738				Pass		

Page 24 of 102

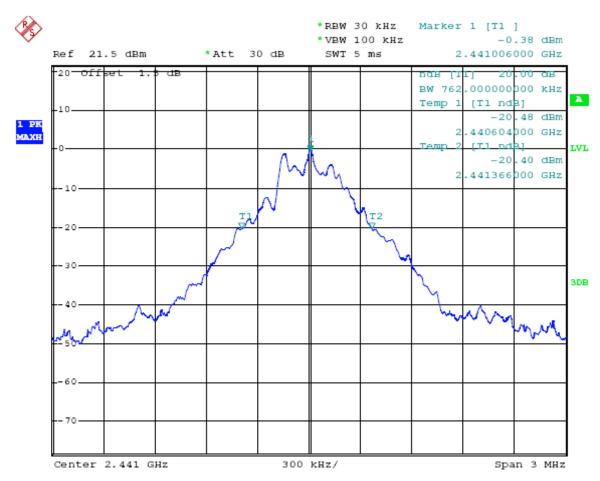
Test Figure: (GFSK MODE)

1. Condition: Low Channel

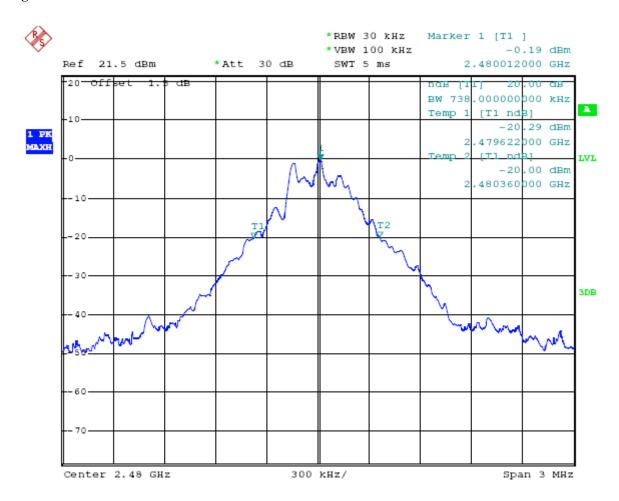


Date: 2012-08-15

#### 2. Condition: Middle Channel



#### 3. High Channel



Report No: YY1200628F Date: 2012-08-15

### Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

Page 27 of 102

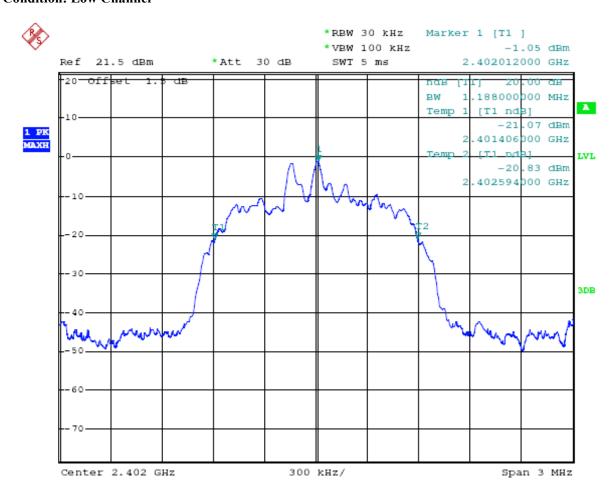
### 7.5 Test Result: (Π/4QPSK MODE)

EU	T PPG		PPG Recorder		lel	RX10	01				
Mod	de	Keep Transmitting Input Volt		Transmitting Input Voltage		Transmitting Input Voltage Do		p Transmitting Input Voltage DC3		DC3.	7V
Temper	ature	24	4 deg. C, Humidity		4 deg. C, Humidity 56%		56% I	RH			
Channel		el Frequency (MHz)	20 dB Bandw (KHz)	vidth M		Maximum Limit (kHz)					
Low		2402 1188			Pass						
Middle		2441	1182		1182			Pass			
High		2480	1182				Pass				

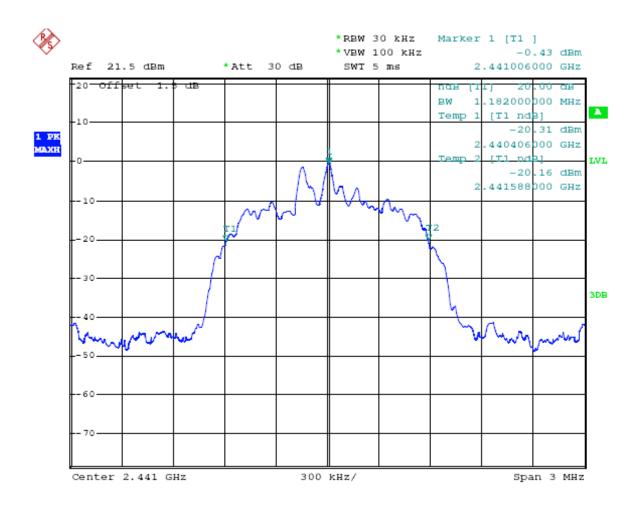
Page 28 of 102

Test Figure: (Π/4QPSK MODE)

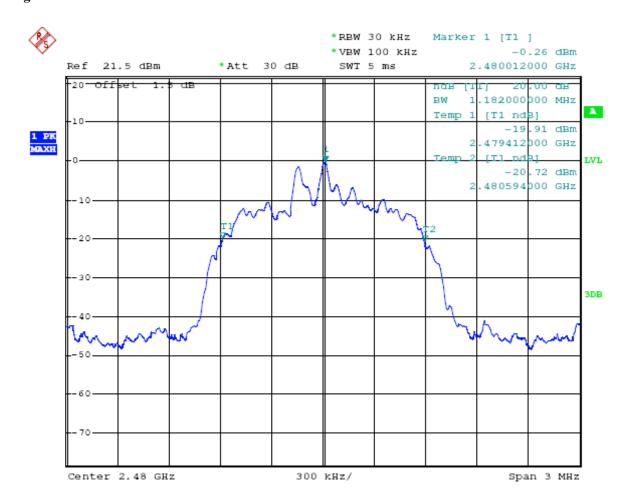
1. Condition: Low Channel



#### 2. Condition: Middle Channel



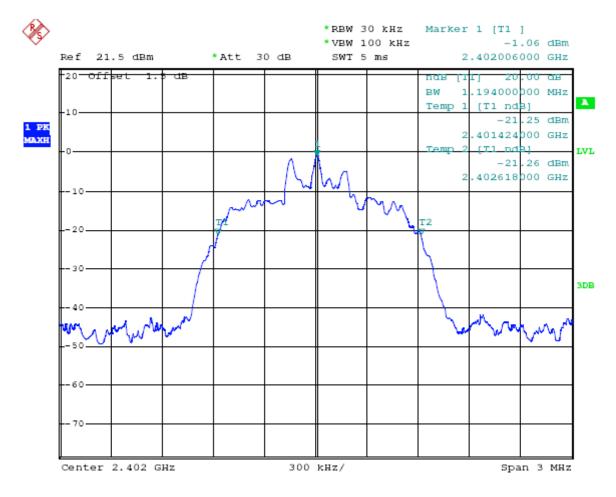
#### 3. High Channel



### 7.6 Test Result: (8DPSK MODE)

EU	Т	PPG Recorder		Model		RX101							
Mod	de	Keep Transmitting Ir		Transmitting Input Voltage		Transmitting Input Voltag		Transmitting Input Volta		Transmitting Input Vo		DC3.	7V
Temper	ature	24	deg. C, Humidity 56% l		24 deg. C, Humidity		RH						
Channel		el Frequency (MHz)	20 dB Bandw (KHz)	vidth Ma		Maximum Limit (kHz)							
Low		2402	2 1194			Pass							
Middle		2441	1182		Pass								
High		2480	1188			Pass							

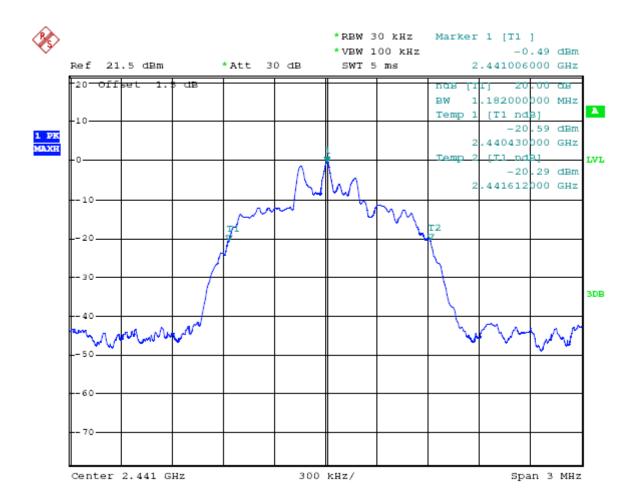
#### 1. Low Channel



The report refers only to the sample tested and does not apply to the bulk.

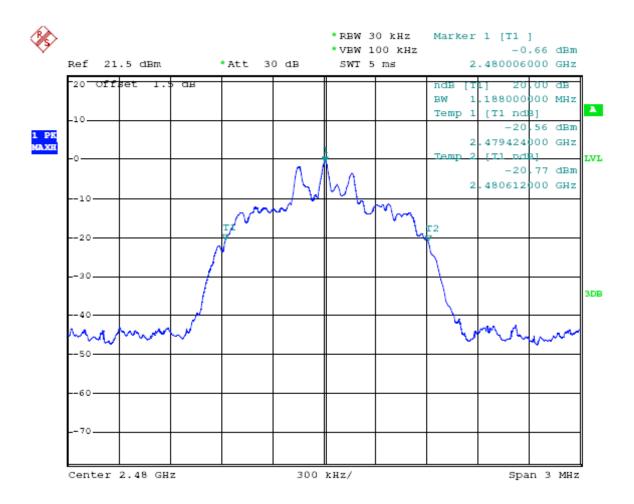
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#### 2. Middle Channel



Report No: YY1200628F Date: 2012-08-15

#### 3. High Channel



Note: 1. Through Pre-scan, find the DH1 of data type is worse case of GFSK modulation type, 2-DH1 of data type is the worse case of  $\Pi/4QPSK$  modulation type, 3-DH1 of data type is worse case of 8DPSK modulation type.

2. All Test data is excerpted from FCC test report with FCC ID: N8DBF10-A

Page 34 of 102

#### 8. Maximum Peak Output Power

#### 8.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

#### **8.3 Test Procedure**

- 1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold
- 3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
- 4. Repeat above procedures until all frequencies measured were complete.

#### **8.4Test Results (GFSK MODE)**

EUT PPG Rec		corder Mode		odel F		RX101	
Mode Keep		Keep Tran	smitting Input V		Input Voltage		C3.7V
Temperature	e	24 deg	leg. C, Humidity		56% RH		
Channel	Cha	annel Frequency (MHz)	Peak Power C (dBm)	Output	Peak P Lin (dB:	nit	Pass/ Fail
Low		2402	2.33		30		Pass
Middle		2441	1.36		30		Pass
High		2480	-0.87		30	)	Pass

#### Page 35 of 102

#### 8.5Test Results (Π/4QPSK MODE)

EUT	PPG Reco		corder Mod		odel		RX101	
Mode	Mode Keep Trans		smitting Input V		Input Voltage		C3.7V	
Temperature	e	24 deg	leg. C, Humidity 56%		Humidity		6% RH	
Channel	Ch	annel Frequency (MHz)	Peak Power (dBm)	Output	Peak P Lin (dB:	nit	Pass/ Fail	
Low		2402	0.11		30		Pass	
Middle		2441	-0.60	•	30		Pass	
High		2480	-3.72		30		Pass	

#### 8.6Test Results (8DPSK MODE)

EUT		PPG Rec	corder	M	odel	F	RX101		
Mode	Mode Keep Transmitti		smitting	Input Voltage		DC3.7V			
Temperature	e	24 deg	leg. C, Humidity 56%		Humidity		Humidity 56%		5% RH
Channel	Ch	annel Frequency (MHz)	Peak Power (dBm)	Output	Peak Power Limit (dBm)		Pass/ Fail		
Low		2402	2402 0.42		30		Pass		
Middle		2441	-0.44		30		Pass		
High		2480	-3.61		30		Pass		

Note: 1. the result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

- 2. Through Pre-scan, find the DH1 of data type is worse case of GFSK modulation type, 2-DH1 of data type is the worse case of  $\Pi/4$ QPSK modulation type, 3-DH1 of data type is worse case of 8DPSK modulation type.
  - 3. All Test data is excerpted from FCC test report with FCC ID: N8DBF10-A

Page 36 of 102

Report No: YY1200628F Date: 2012-08-15

#### 9. Carrier Frequency Separation

#### 9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

#### 9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

#### 9.3 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span; Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold
- 3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
- 4. Repeat above procedures until all frequencies measured were complete.

### Page 37 of 102

#### 9.4Test Result (GFSK MODE)

EUT		PPG Rec	corder	M	odel	F	RX101
Mode		Keep Tran	Transmitting Input Voltage		Voltage	D	C3.7V
Temperature	e	24 deg	deg. C, Humidity		nidity 5		6% RH
Channel	Ch	annel Frequency (MHz)	Carrier Frequ Separatio	-	Lin	nit	Pass/ Fail
Low		2402	1000		≥ 25 k	kHz or	Pass
Middle		2441	1005		two-thirds of 2		
High		2480	1005	1005		dwidth	

#### 9.5Test Result (II/4QPSK MODE)

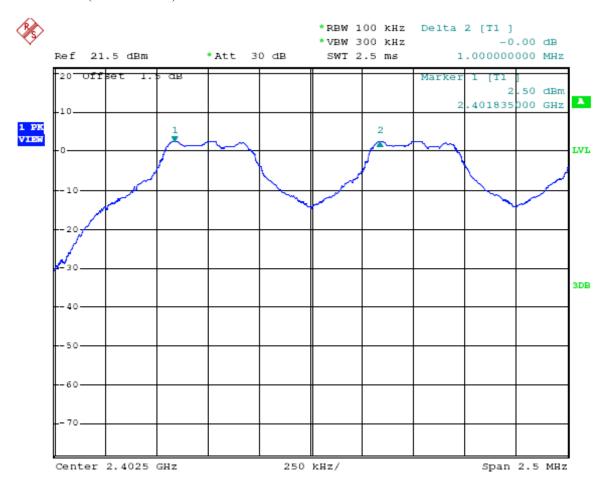
EUT		PPG Rec	corder	M	odel	F	RX101		
Mode		Keep Transmitting Input Volt		Keep Transmitting Input		smitting Input Voltage		D	C3.7V
Temperature	e	24 deg	leg. C, Humidity		nidity		6% RH		
Channel	Cha	annel Frequency (MHz)	Carrier Frequ Separatio	-	Lin	nit	Pass/ Fail		
Low		2402	1004		≥ 25 l	kHz or	Pass		
Middle		2441	1000		two-thire				
High	High 2480		1002		dB band	dwidth			

#### 9.6Test Result (8DPSK MODE)

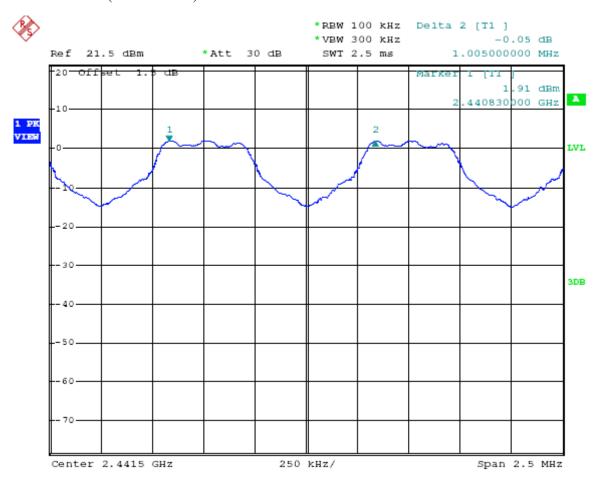
EUT		PPG Rec	corder	M	odel	F	RX101
Mode		Keep Tran	smitting	Input Voltage		D	C3.7V
Temperature	e	24 deg	g. C,	Humidity		50	6% RH
Channel	Ch	annel Frequency (MHz)	Carrier Frequency Separation		Lin	nit	Pass/ Fail
Low		2402	1005		≥ 25 k	Hz or	Pass
Middle		2441	1000		two-third	ds of 20	
High	2480		1000		dB band	dwidth	

The report refers only to the sample tested and does not apply to the bulk.

#### 1. Low Channel (GFSK MODE)

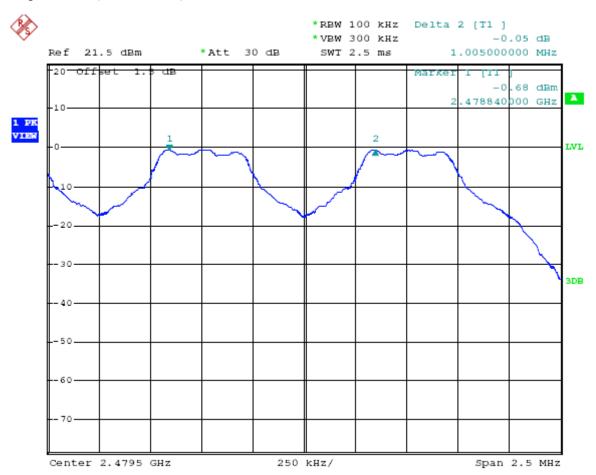


#### 2. Middle Channel (GFSK MODE)

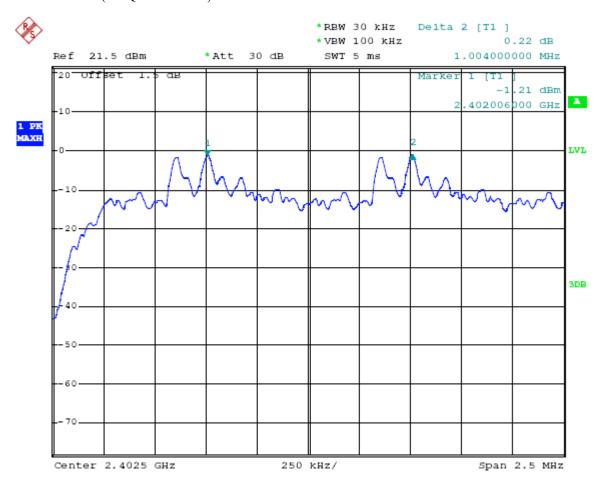


Report No: YY1200628F Date: 2012-08-15

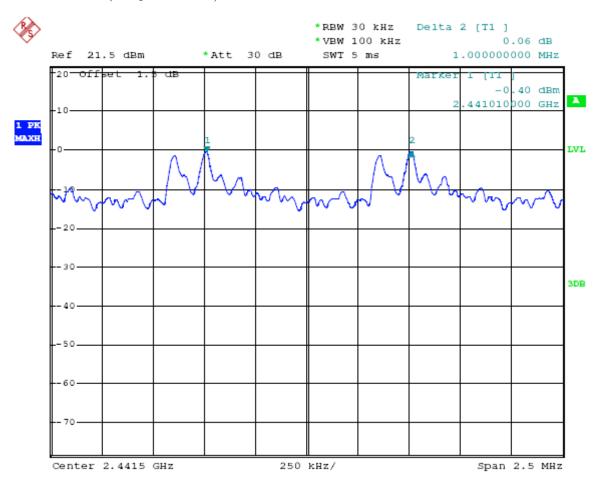
#### 3. High Channel (GFSK MODE)



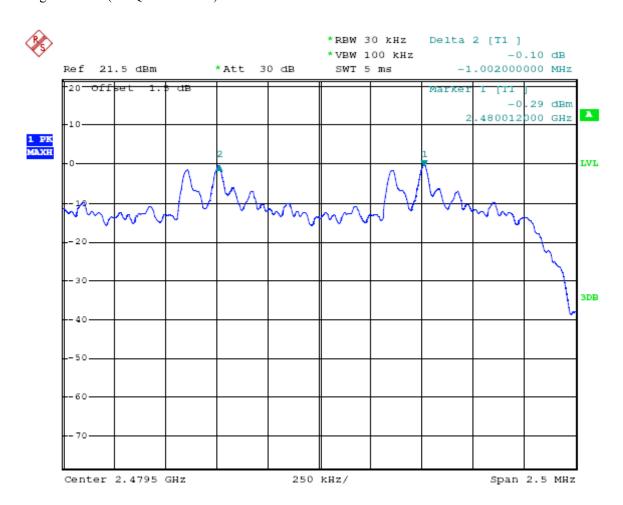
#### 4. Low Channel (Π/4QPSK MODE)



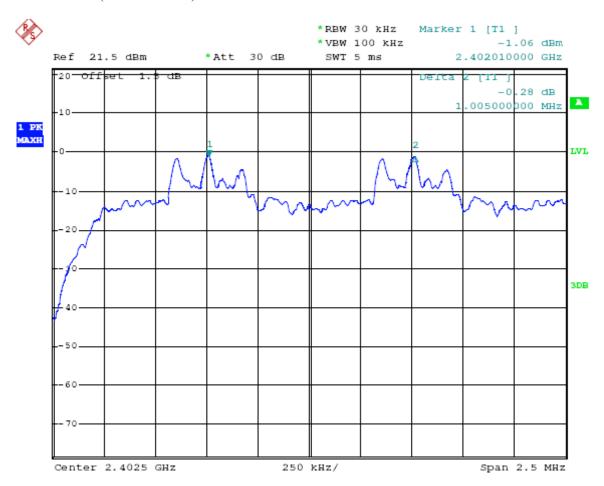
#### 5. Middle Channel (Π/4QPSK MODE)



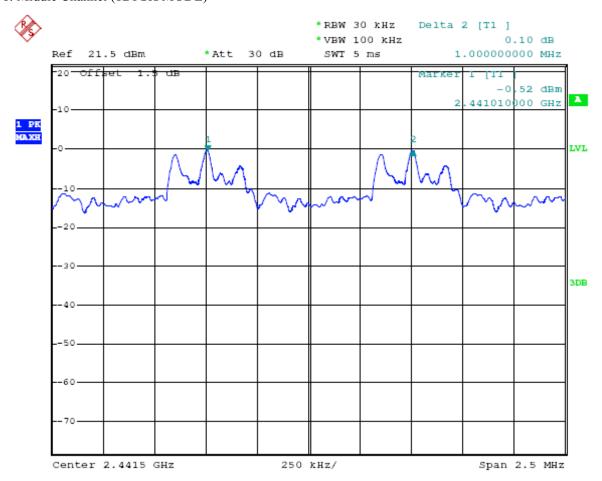
6. High Channel (Π/4QPSK MODE)



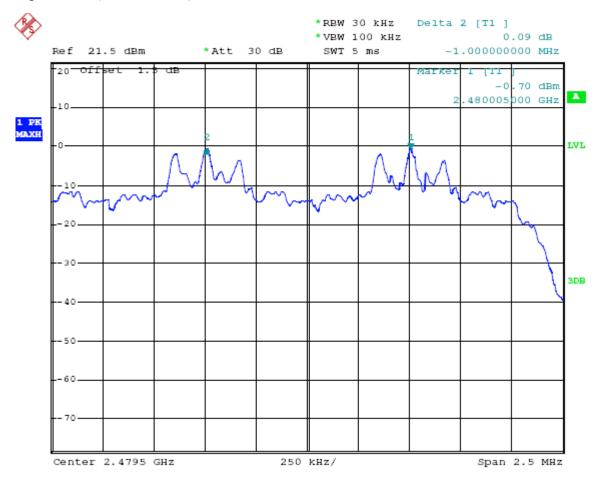
#### 7. Low Channel (8DPSK MODE)



#### 8. Middle Channel (8DPSK MODE)



#### 9. High Channel (8DPSK MODE)



Note: 1. Through Pre-scan, find the DH1 of data type is worse case of GFSK modulation type, 2-DH1 of data type is the worse case of  $\Pi/4QPSK$  modulation type, 3-DH1 of data type is worse case of 8DPSK modulation type.

2. All Test data is excerpted from FCC test report with FCC ID: N8DBF10-A

Page 47 of 102

Report No: YY1200628F Date: 2012-08-15

#### 10. Number of Hopping Channels

#### 10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

#### 10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

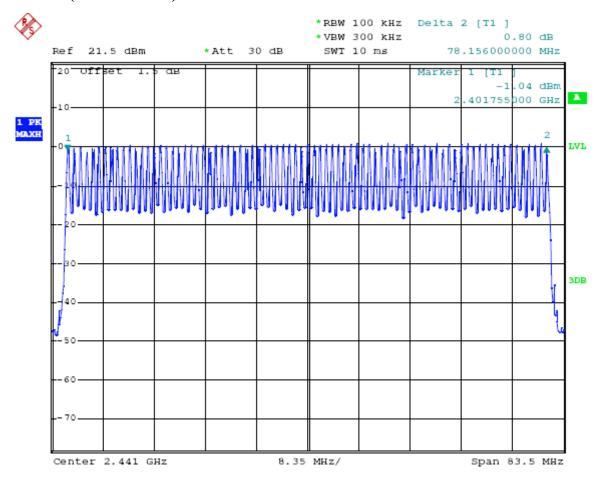
#### 10.3 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW  $\geq$  1% of the span; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold
- 3. Record the number of hopping channels.

## 10.4Test Result (GFSK MODE)

EUT	PPG Recorder		M	odel	F	RX101
Mode	Keep Transmitting		Input Voltage DO		C3.7V	
Temperature		24 deg. C,		Humidity		5% RH
Operating Frequ	ency Number of hopping cha		nnels	Lin	nit	Pass/ Fail
2402-2480MHz		79		≥ 1	5	Pass

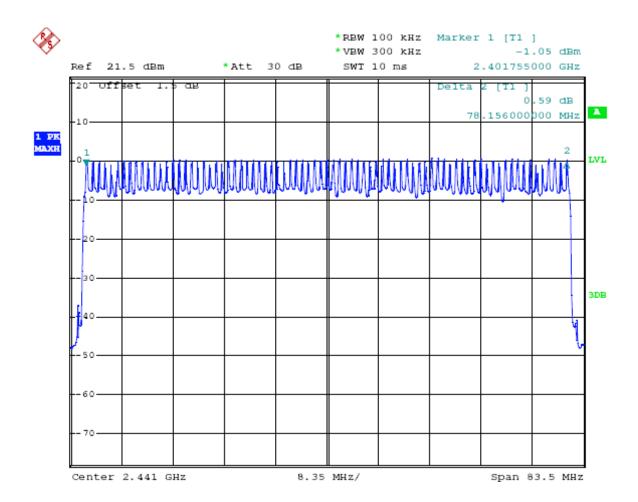
### **Test Plot (GFSK MODE)**



10.5 Test Result (Π/4QPSK MODE)

EUT	PPG Recorder		M	Model		RX101
Mode	Keep Transmitting		Input Voltage D		C3.7V	
Temperature		24 deg. C,	Humidity		50	6% RH
Operating Frequ	iency	ency Number of hopping chan		Lin	nit	Pass/ Fail
2402-2480M	Hz	79		≥ 1	.5	Pass

#### **Test Plot (Π/4QPSK MODE)**

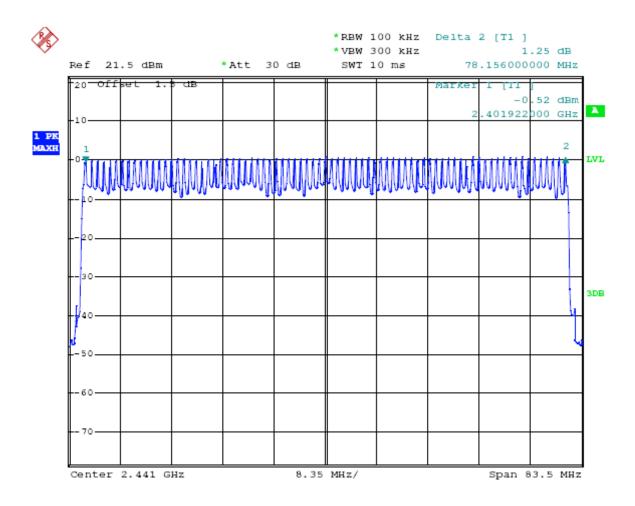


Date: 2012-08-15

#### 10.5 Test Result (8DSK MODE)

EUT	PPG Recorder		M	Model		RX101	
Mode	Keep Transmitting		Input Voltage I		C3.7V		
Temperature		24 deg. C,		Humidity		56% RH	
Operating Frequ	iency	ency Number of hopping chan		Lin	nit	Pass/ Fail	
2402-2480M	80MHz 79			≥ 1	.5	Pass	

#### **Test Plot (8DPSK MODE)**



Note: All Test data is excerpted from FCC test report with FCC ID: N8DBF10-A

Report No: YY1200628F Page 51 of 102 Date: 2012-08-15

#### 11. Time of Occupancy (Dewell Time)

#### 11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

#### 11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

#### 11.3 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW ≥ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak;
- 3. Measure the dwell time using the marker-delta function.
- 4. Repeat above procedures until all frequencies measured were complete.
- 5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

Report No: YY1200628F Date: 2012-08-15

## Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

Page 52 of 102

#### 11.4 Test Result

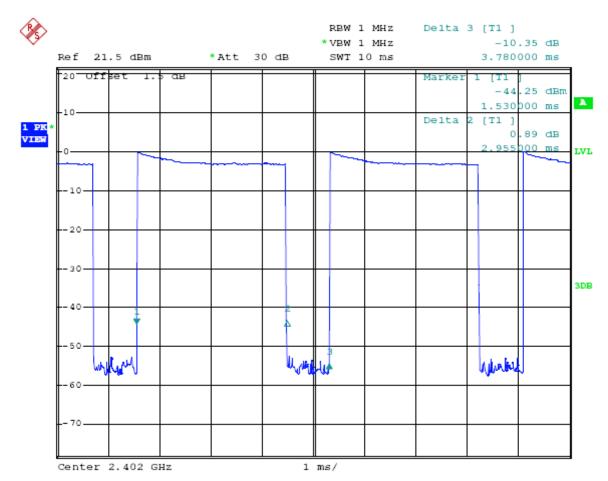
EUT		PPG Re	corder	der Model		R	X101
Mode		Keep Tran	smitting	Input Voltage		tage DC3.7	
Temperature	e	24 deg	deg. C, Humidity 5		56	5% RH	
Channel		Reading	Hoping Ra	ate	Acti	ual	Limit
GFSK Mod	e						
Low		2.955	266.667 hop/s		0.3152		0.4s
Π/4QPSK N	/lode						
Low		2.940	266.667 ho	op/s 0.3		36	0.4s
8DQSK Mode							
Low		2.945	266.667 ho	p/s	0.31	41	0.4s

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 $\mu$ s with 79 channels. A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels. **And the DH5 is the worst case.** 

Page 53 of 102

Test Plots: (GFSK MODE)

Low Channel: DH5



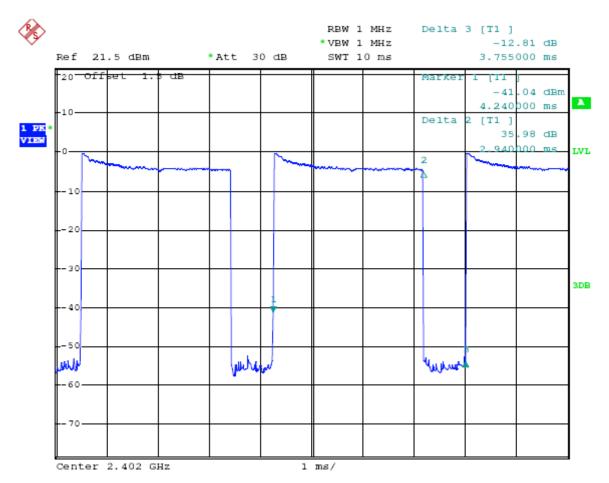
### Report No: YY1200628F Date: 2012-08-15

## Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

Page 54 of 102

Test Plots: (Π/4QPSK MODE)

Low Channel: DH5



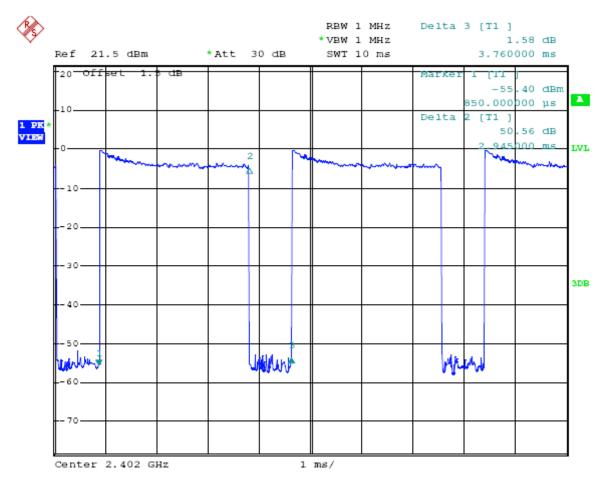
## Report No: YY1200628F Date: 2012-08-15

## Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

Page 55 of 102

Test Plots: (8DPSK MODE)

Low Channel: DH5



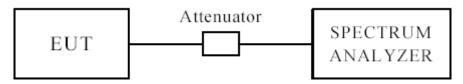
Note: All Test data is excerpted from FCC test report with FCC ID: N8DBF10-A

#### **Shenzhen Yi Yuan Technology** Report No: YY1200628F Consulting CO.,Ltd. Date: 2012-08-15

Page 56 of 102

#### 12 Out of Band Measurement

#### 12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

#### 12.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

#### 12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

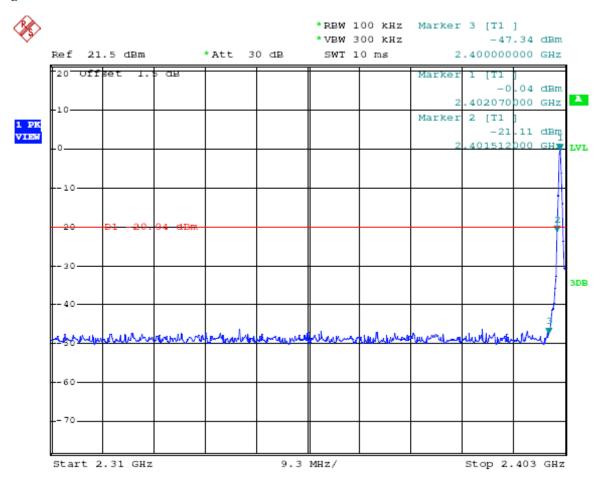
For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

Test result: (GFSK MODE)

#### 12.4 Out of Band and Restrict band Test Result

Product:	PPG	Recorder	Test Mode:	Low Channel
Mode	Keeping Transm	itting Under Low CH	Input Voltage	DC3.7V
Temperature	24	deg. C	Humidity	56% RH
Test Result:		Pass	Detector	PK
The Max. FS in	PK (dBμV/m)	39.2(V)/38.7(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	$54(dB\mu V/m)$
2390MHz		1		

#### **Test Figure:**

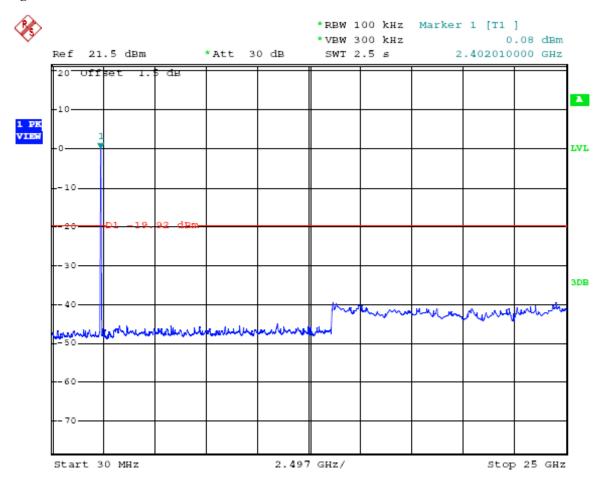


Date: 2012-08-15

#### 12.4 Out of Band Test Result

Product:	PPG Recorder	Test Mode:	Low Channel
Mode	Keeping Transmitting Under Low CH	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### **Test Figure:**



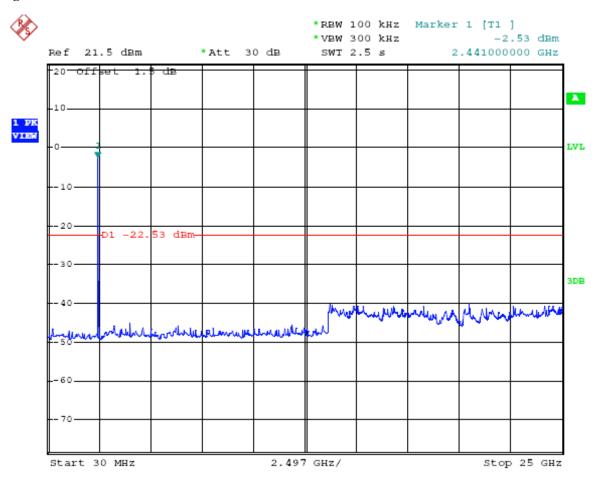
### Page 59 of 102

## Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

#### 12.4 Out of Band Test Result

Product:	PPG Recorder	Test Mode:	Middle Channel
Mode	Keeping Transmitting Under Low CH	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### **Test Figure:**

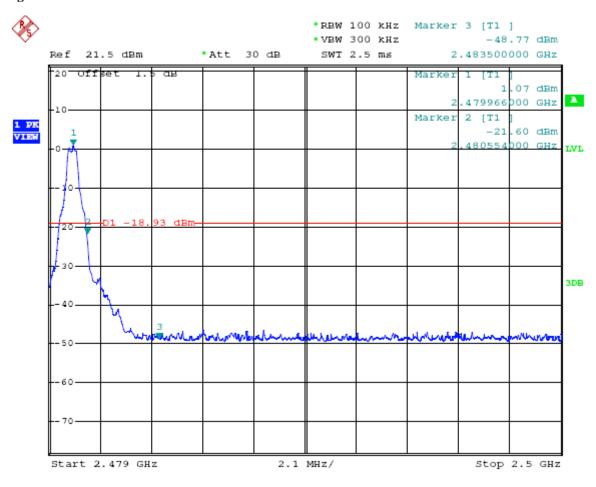


Date: 2012-08-15

#### 12.4 Out of Band and Restrict band Test Result

Product:	PPG Recorder		Test Mode:	High Channel
Mode	Keeping Transn	nitting Under High	Input Voltage	DC3.7V
	(	CH		
Temperature	24 0	leg. C,	Humidity	56% RH
Test Result:	F	ass	Detector	PK
The Max. FS in	PK (dBμV/m)	39.5(V)/39.0(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	54(dBµV/m)
2484.5MHz		1		

#### **Test Figure:**

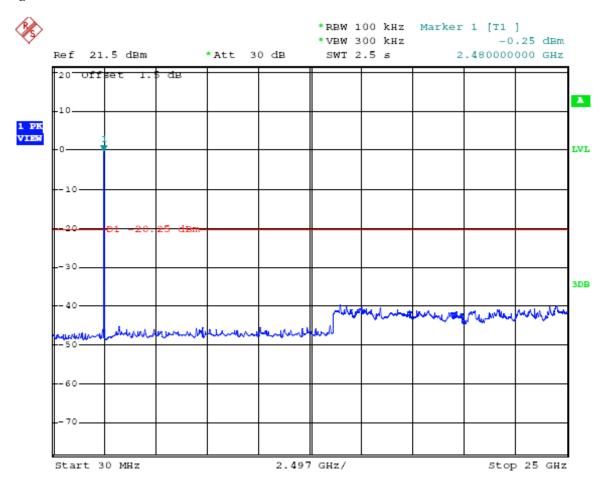


Date: 2012-08-15

#### 12.4 Out of Band Test Result

Product:	PPG Recorder	Test Mode:	High Channel
Mode	Keeping Transmitting Under Low CH	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### **Test Figure:**

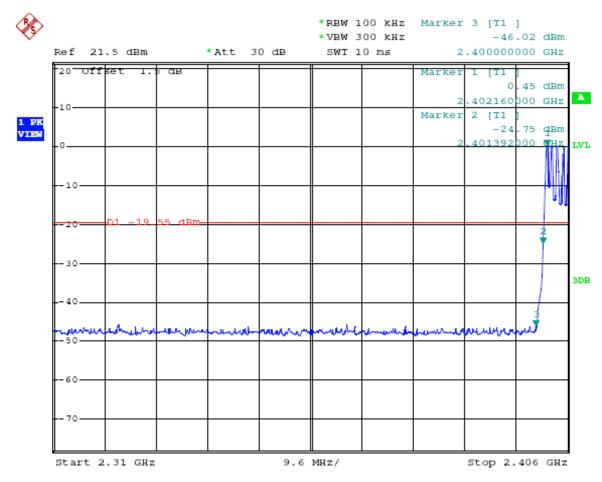


Date: 2012-08-15

#### 12.4 Out of Band and Restrict band Test Result (Hopping Mode)

Product:	PPG Recorder		Test Mode:	Low Channel
Mode	Hopping Mode		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	38.7(V)/38.2(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	54(dBµV/m)
2390MHz		-		

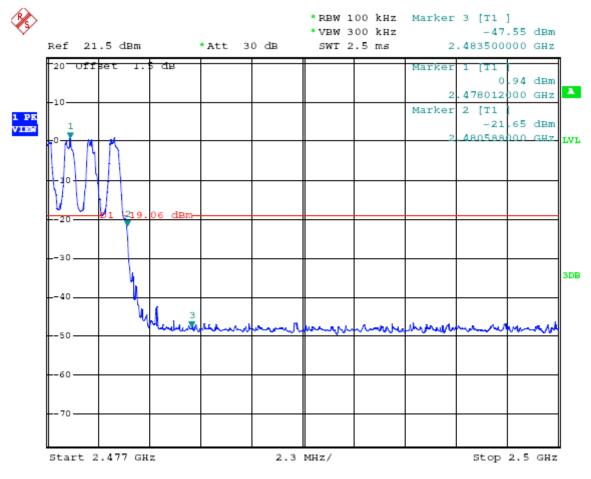
#### **Test Figure:**



12.4 Out of Band and Restrict band Test Result (Hopping Mode)

, <b>11</b> 9 ,					
Product:	PPG Recorder		Test Mode:	High Channel	
Mode	Hopping Mode		Input Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass		Detector	PK	
The Max. FS in	PK (dBμV/m)	38.8(V)/38.3(H)		$74(dB\mu V/m)$	
Restrict Band	AV(dBμV/m)		Limit	$54(dB\mu V/m)$	
2483.5MHz		-			

#### **Test Figure:**

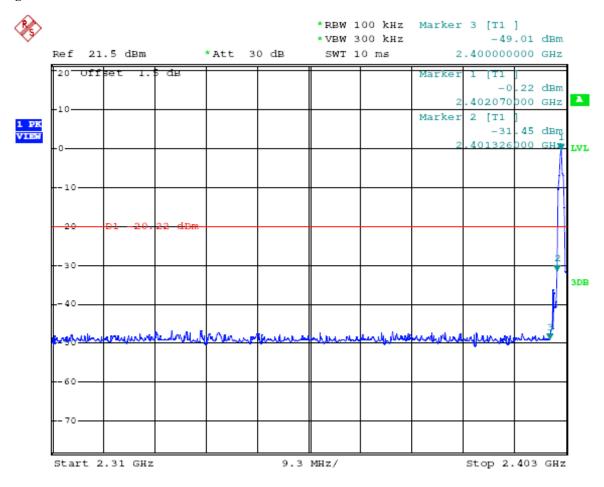


Test result: (Π/4QPSK Mode)

#### 12.4 Out of Band and Restrict band Test Result

Product:	PPG Recorder		Test Mode:	Low Channel
Mode	Keeping Transmitting Under Low CH		Input Voltage	DC3.7V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	39.2(V)/38.9(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	54(dBµV/m)
2390MHz		1		

#### **Test Figure:**

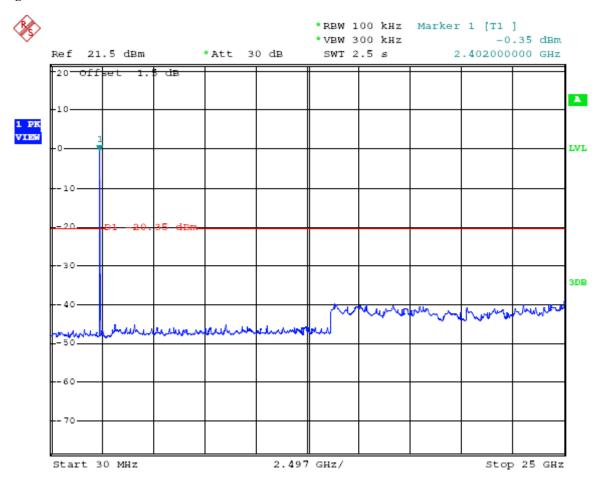


Date: 2012-08-15

#### 12.4 Out of Band Test Result

Product:	PPG Recorder	Test Mode:	Low Channel
Mode	Keeping Transmitting Under Low CH	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### **Test Figure:**

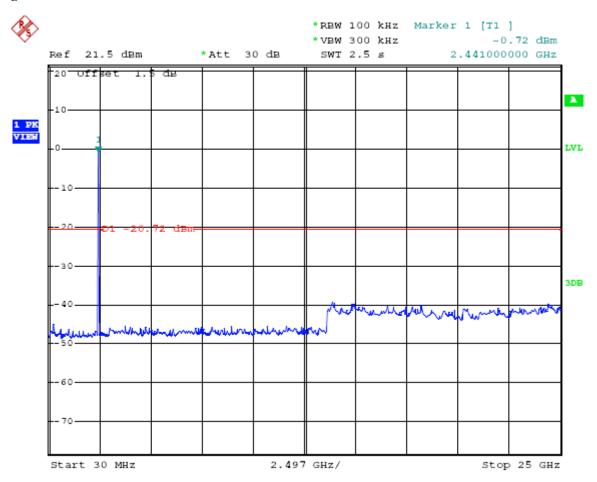


Date: 2012-08-15

#### 12.4 Out of Band and Restrict band Test Result

Product:	PPG Recorder	Test Mode:	Middle Channel
Mode	Keeping Transmitting Under Low CH	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

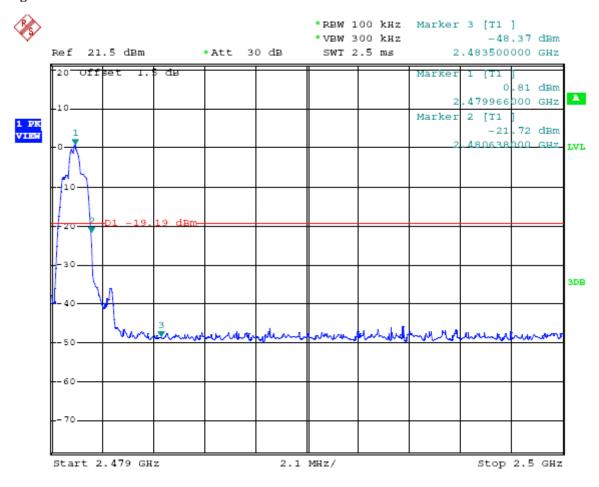
#### **Test Figure:**



12.4 Out of Band and Restrict band Test Result

Product:	PPG Recorder		Test Mode:	High Channel
Mode	Keeping Transmitting Under High		Input Voltage	DC3.7V
	СН			
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	40.3(V)/39.3(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	$54(dB\mu V/m)$
2483.5MHz				

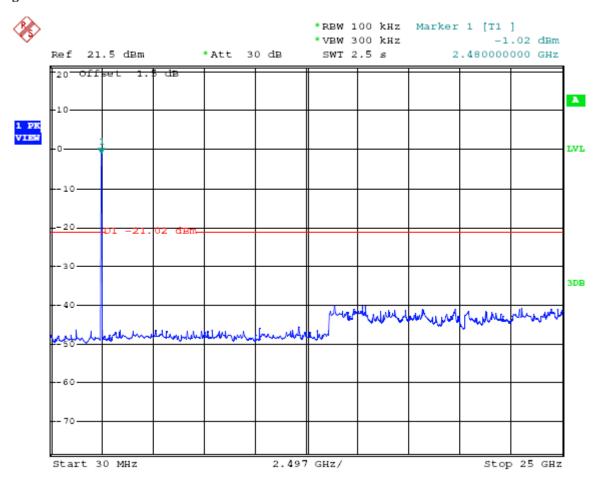
#### **Test Figure:**



12.4 Out of Band and Restrict band Test Result

Product:	PPG Recorder	Test Mode:	High Channel
Mode	Keeping Transmitting Under Low CH	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

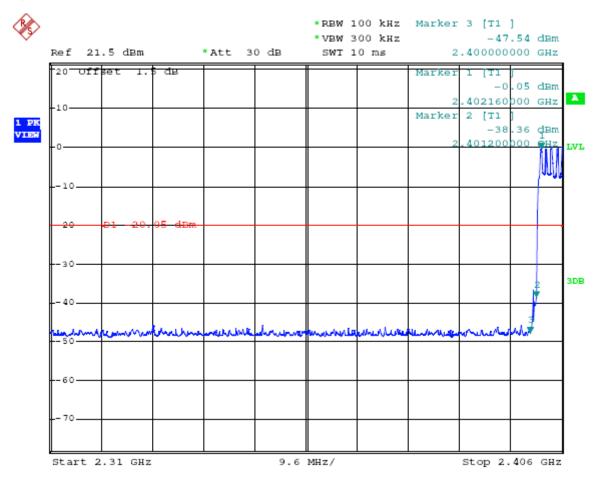
#### **Test Figure:**



12.4 Out of Band and Restrict band Test Result (Hopping Mode)

( 11 0 )				
Product:	PPG Recorder		Test Mode:	Low Channel
Mode	Hopping Mode		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	39.2(V)/38.6(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	$54(dB\mu V/m)$
2390MHz		-		

#### **Test Figure:**

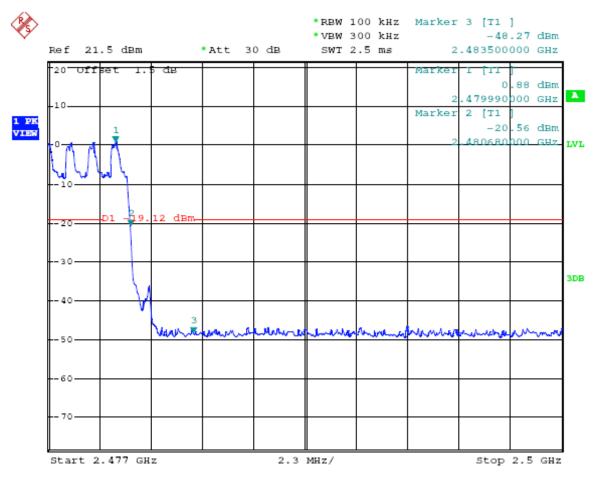


Date: 2012-08-15

#### 12.4 Out of Band and Restrict band Test Result (Hopping Mode)

Product:	PPG Recorder		Test Mode:	High Channel
Mode	Hopping Mode		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	39.9(V)/40.3(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	54(dBμV/m)
2483.5MHz				

#### **Test Figure:**



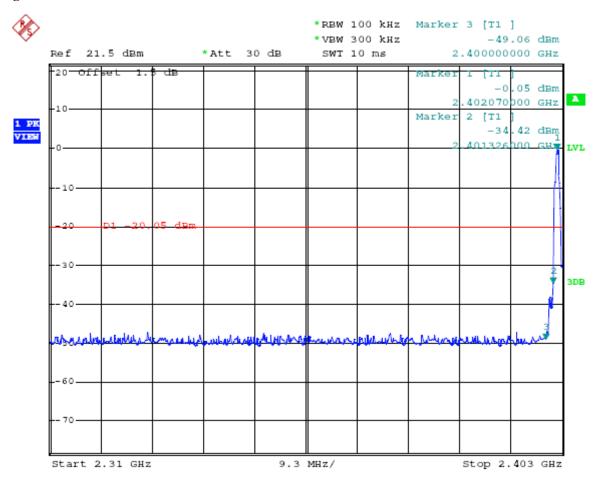
Page 71 of 102

Test result: (8DPSK Mode)

#### 12.4 Out of Band and Restrict band Test Result

Product:	PPG Recorder		Test Mode:	Low Channel
Mode	Keeping Transmitting Under Low CH		Input Voltage	DC3.7V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	39.5(V)/39.0(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	54(dBµV/m)
2390MHz		-		

#### **Test Figure:**



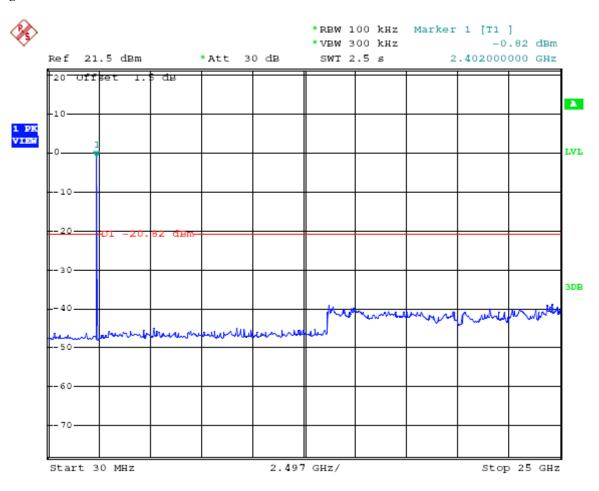
## Page 72 of 102

## Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

#### 12.4 Out of Band and Restrict band Test Result

Product:	PPG Recorder	Test Mode:	Low Channel
Mode	Keeping Transmitting Under Low CH	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### **Test Figure:**

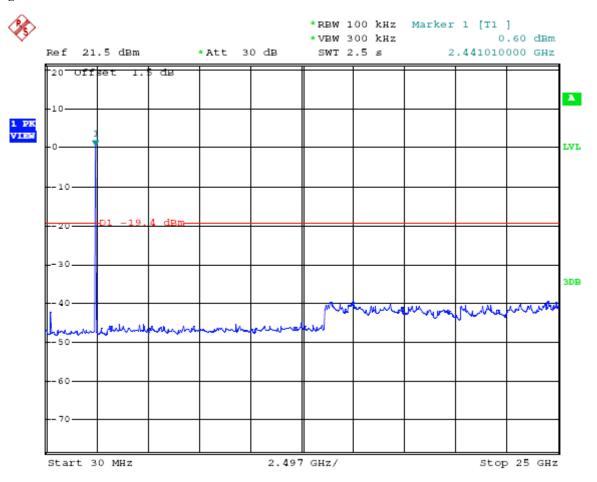


Date: 2012-08-15

#### 12.4 Out of Band and Restrict band Test Result

Product:	PPG Recorder	Test Mode:	Middle Channel
Mode	Keeping Transmitting Under Low CH	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### **Test Figure:**

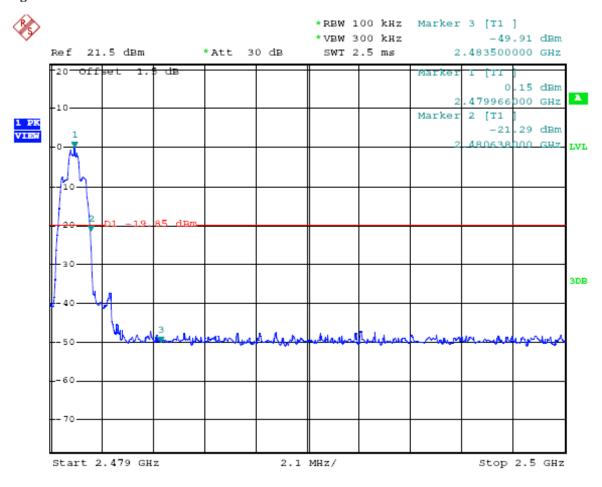


Date: 2012-08-15

#### 12.4 Out of Band and Restrict band Test Result

Product:	PPG I	Recorder	Test Mode:	High Channel
Mode	Keeping Transn	nitting Under High	Input Voltage	DC3.7V
	(	СН		
Temperature	24 0	leg. C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	40.1(V)/39.8(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	54(dBµV/m)
2483.5MHz				

#### **Test Figure:**



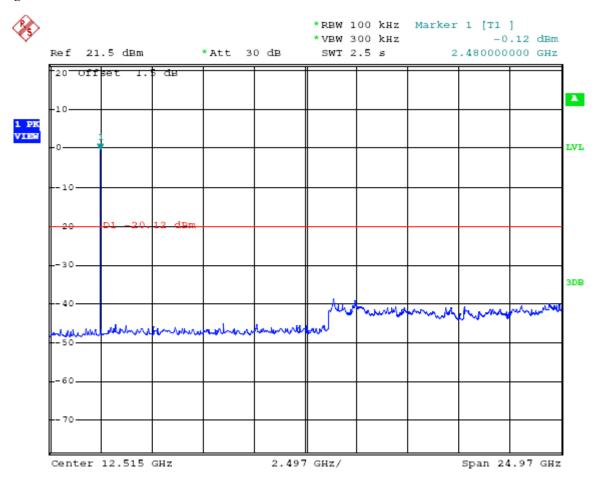
Note: The Max. FS in Restrict Band are measured in conventional method.

Date: 2012-08-15

#### 12.4 Out of Band and Restrict band Test Result

Product:	PPG Recorder	Test Mode:	High Channel
Mode	Keeping Transmitting Under Low CH	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### **Test Figure:**

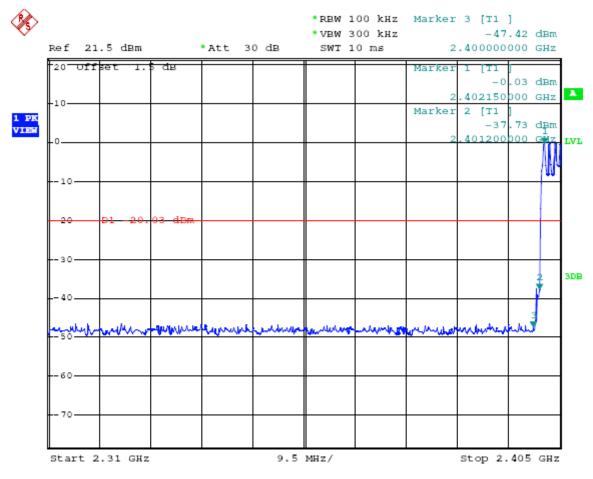


Page 76 of 102

#### 12.5 Out of Band and Restrict band Test Result (Hopping Mode)

Product:	PPG I	Recorder	Test Mode:	Low Channel
Mode	Норрі	ng Mode	Input Voltage	DC5V
Temperature	24 0	leg. C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	39.5(V)/38.8(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	$54(dB\mu V/m)$
2390MHz				

#### **Test Figure:**



Note: The Max. FS in Restrict Band are measured in conventional method.

Page 77 of 102

Consulting CO.,Ltd.

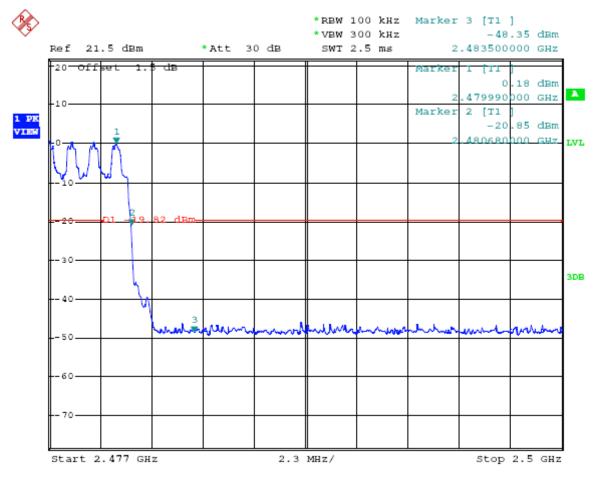
Date: 2012-08-15

Report No: YY1200628F

#### 12.4 Out of Band and Restrict band Test Result (Hopping Mode)

Product:	PPG I	Recorder	Test Mode:	High Channel
Mode	Норрі	ng Mode	Input Voltage	DC3.7V
Temperature	24 0	deg. C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	40.5(V)/40.0(H)		$74(dB\mu V/m)$
Restrict Band	AV(dBμV/m)		Limit	54(dBμV/m)
2483.5MHz				

#### **Test Figure:**



The Max. FS in Restrict Band are measured in conventional method.

Note: 1. Through Pre-scan, find the DH1 of data type is worse case of GFSK modulation type, 2-DH1 of data type is the worse case of  $\Pi/4QPSK$  modulation type, 3-DH1 of data type is worse case of 8DPSK modulation type.

2. All Test data of out of band test is excerpted from FCC test report with FCC ID: N8DBF10-A

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Page 78 of 102

Report No: YY1200628F Date: 2012-08-15

## 13.0 Antenna Requirement

### 13.1 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 transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 13.2 Antenna Connected construction

There is a PCB printed antenna, and the maximum Gain of this antenna is 2.5dBi.

Page 79 of 102

Report No: YY1200628F Date: 2012-08-15

## 14.0 RF Exposure

## **Applicable Standard**

According to §1.1307(b)(5), systems operating under the provisions of this section shall be oper-ated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline. This is a Portable device. KDB616217 was used as the guidance.

According to §1.1310 and §2.1093 RF exposure is calculated.

#### **Measurement Result**

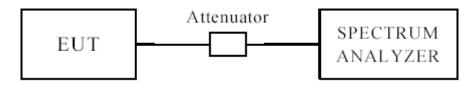
This is a PPG Record and the conducted output power is 2.33dBm (1.71mW), so the EIRP is 1.778\*1.71=3.04mW which is lower than low threshold 60/fGHz mW (60/2.480GHz= 24.19 mW), and the antenna is 2.5dBi which is less than 6dBi.

The SAR measurement is not necessary.

Page 80 of 102

#### 15.0 99% Bandwidth Measurement

#### 15.1 Test Setup



#### 15.2 Limits of 99% Bandwidth Measurement

N/A

#### 15.3 Test Procedure

- 1. Set resolution bandwidth (RBW) =100 kHz.
- 2. Set the video bandwidth (VBW) = 100 kHz.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

#### 15.4 Test Result:

## Page 81 of 102

## Shenzhen Yi Yuan Technology Consulting CO.,Ltd.

#### **GFSK Mode**

EU'	Т	PPC	G Recorder	Mod	lel	RX10	01
Mod	le	Keep	Transmitting Input Vo		Input Voltage		7V
Temper	ature	24	deg. C, Humidity 56% RH		Humidity 56% R		RH
Channel		el Frequency 99% Bandwidth (MHz) (kHz)		dth	Maximum Limit (kHz)		Pass/ Fail
Low		2402	942				Pass
Middle		2441	942	942			
High		2480	942				Pass

### П/4QPSK Mode

EU'	Т	PPC	Recorder	Model		RX101	
Mod	de	Keep	Keep Transmitting Input Voltage		DC3.	7V	
Temper	ature	24	4 deg. C,	Humi	dity	ity 56% R	
Channel		el Frequency (MHz)	99% Bandwid (kHz)			num Limit (kHz)	Pass/ Fail
Low		2402	1218				Pass
Middle		2441	2441 1224				Pass
High		2480	1224			Pass	

#### **8DPSK Mode**

EU'	Т	PPC	Recorder	Model		RX101			
Mod	Mode Keep		Transmitting Input Volt		nput Voltage DC3		7V		
Temper	ature	24 deg. C,		Humidity 56% RH		deg. C, Humio		lity 56% R	
Channel		el Frequency (MHz)	* *			mum Limit (kHz)	Pass/ Fail		
Low		2402	1236				Pass		
Middle		2441	1242	1242					
High		2480	1236				Pass		

The report refers only to the sample tested and does not apply to the bulk.

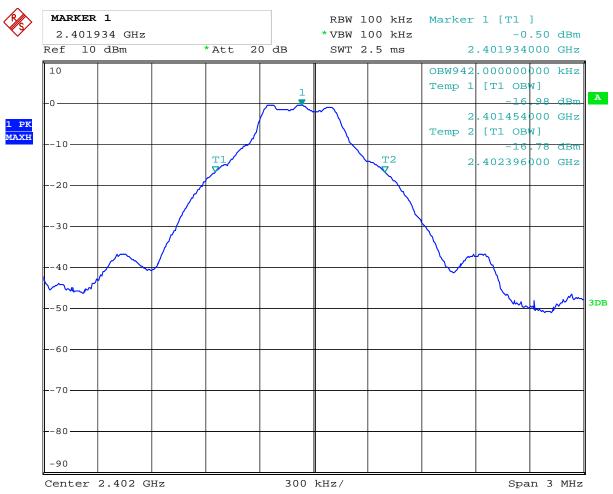
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Page 82 of 102

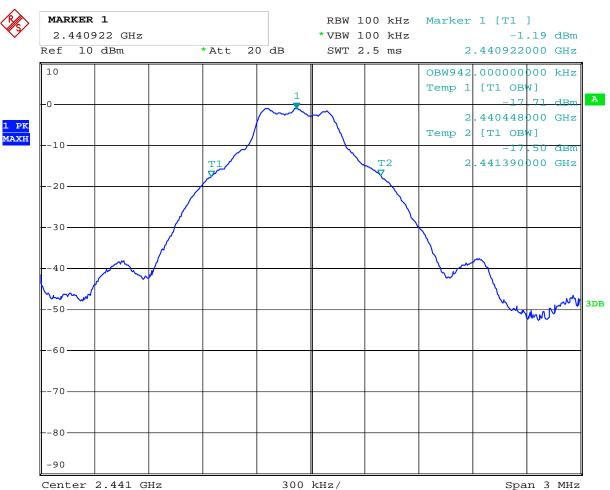
### Test Figure

#### GFSK Mode Low Channel



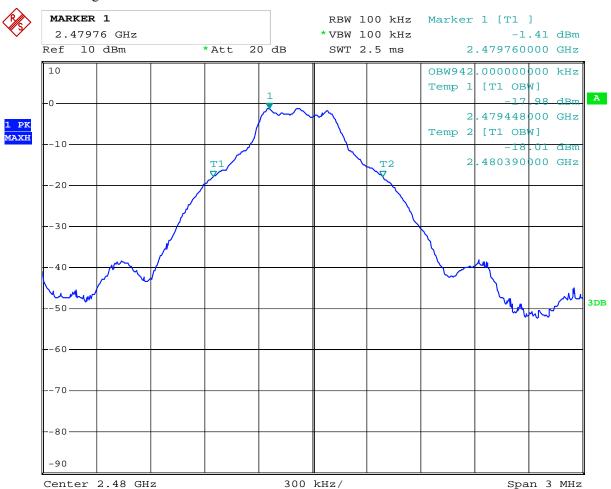
Date: 14.AUG.2012 10:04:12

#### GFSK Mode Middle Channel



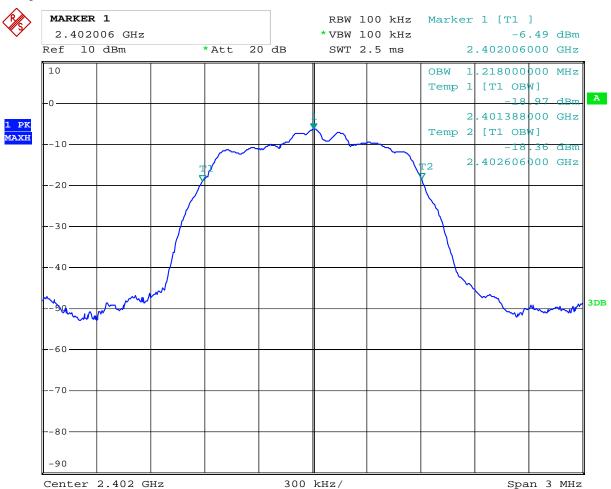
Date: 14.AUG.2012 10:09:52

#### GFSK Mode High Channel



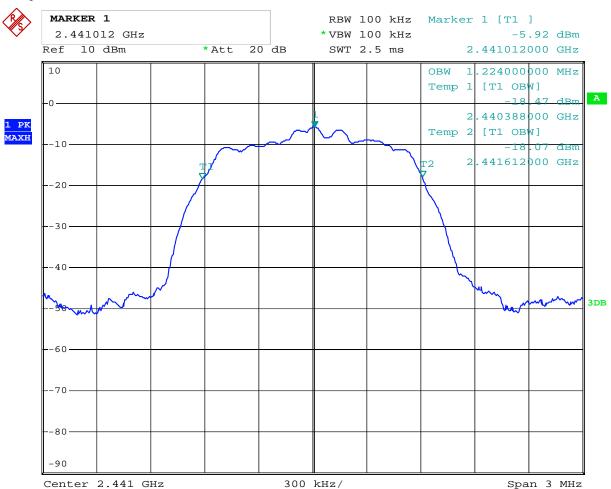
Date: 14.AUG.2012 10:10:52

#### Π/4QPSK Mode Low Channel



Date: 14.AUG.2012 10:15:17

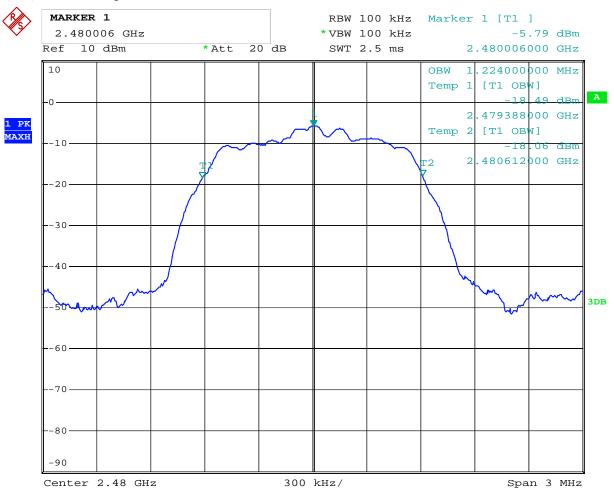
#### П/4QPSK Mode Middle Channel



Date: 14.AUG.2012 10:16:24

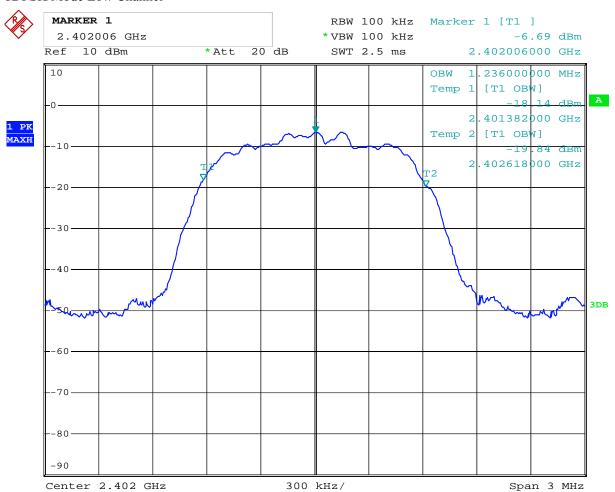
# Date: 2012-08-15

#### П/4QPSK Mode High Channel



Date: 14.AUG.2012 10:17:20

#### 8DPSK Mode Low Channel



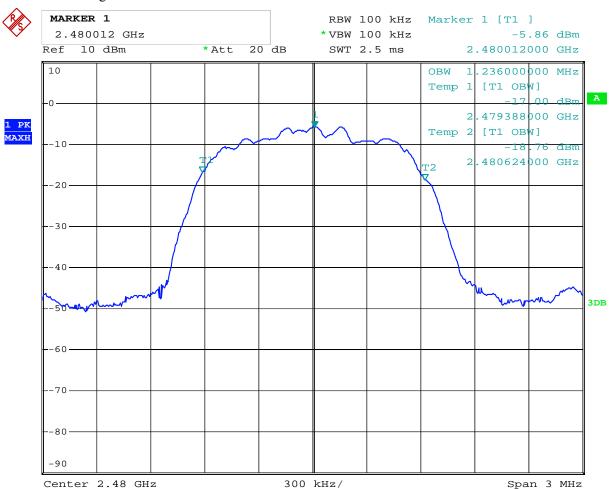
Date: 14.AUG.2012 10:20:55

#### 8DPSK Mode Middle Channel



Date: 14.AUG.2012 10:19:40

#### 8DPSK Mode High Channel



Date: 14.AUG.2012 10:18:42

Report No: YY1200628F Page 91 of 102 Date: 2012-08-15

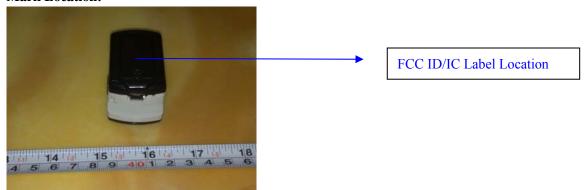
#### 16.0 FCC ID Label

**FCC ID: P6S-RX101** IC: 10191A-RX10102A

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



#### **Shenzhen Yi Yuan Technology** Report No: YY1200628F **Consulting CO.,Ltd.**

Page 92 of 102

Date: 2012-08-15

#### Photo of testing 17.0

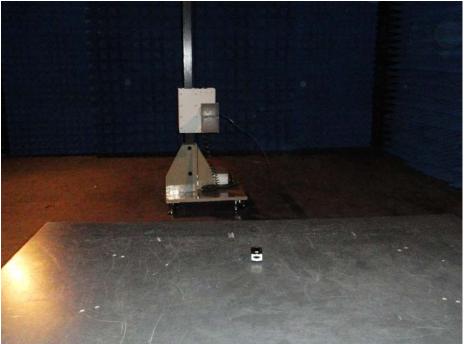
#### 17.1 Conducted test View



Date: 2012-08-15

#### 17.2 Emission Radiated test View





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#### 17.3 Photo for the EUT

#### Outside View





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Report No: YY1200628F Date: 2012-08-15 Page 95 of 102

#### Outside View





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Page 96 of 102

Report No: YY1200628F

Date: 2012-08-15

#### Outside View





Report No: YY1200628F

Date: 2012-08-15

#### Outside View





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Page 98 of 102

Report No: YY1200628F

Date: 2012-08-15

#### Inside View





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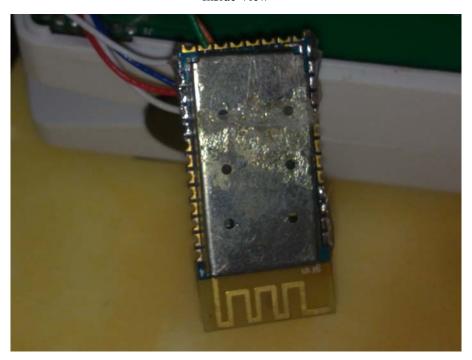
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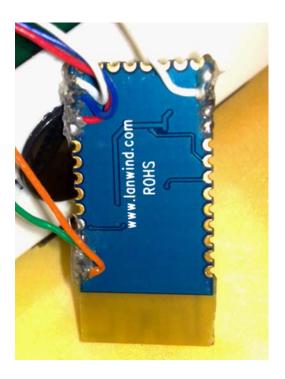
Page 99 of 102

Report No: YY1200628F

Date: 2012-08-15

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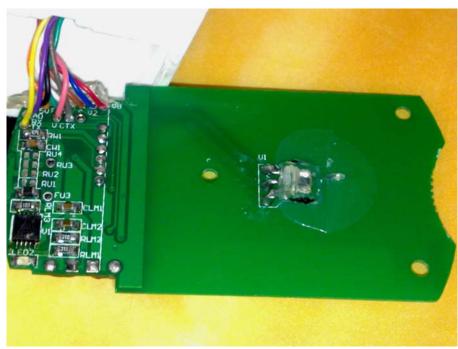
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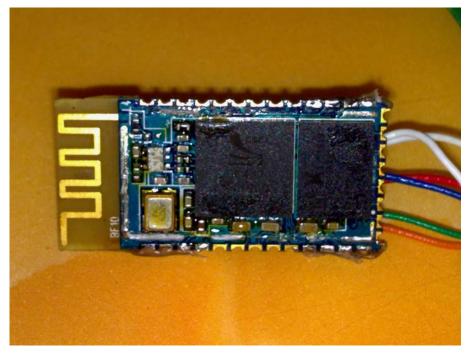
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