

# **FCC Test Report**

FCC ID : 2AHGC-X228B

Equipment : Blood Glucose Monitoring System

Model No. : 5228B, 6228B

(Difference between two models is software version)

Brand Name : BTM

Applicant : Biotest Medical Corporation

Address : No.3-2, 5-2, Chien-Kuo road, TEPZ Tantzu

Dist., Taichung City, Taiwan

Standard : 47 CFR FCC Part 15.247

Received Date : Jan. 14, 2016

Tested Date : Jan. 29 ~ Feb. 01, 2016

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

Gary Chang'/ Manager

lac MRA



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## **Release Record**

Report No.	Version	Description	Issued Date
FR611401	Rev. 01	Initial issue	Mar. 16, 2016

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## **Summary of Test Results**

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	Note	N/A
15.247(d)	Radiated Emissions	[dBuV/m at 3m]: 48.43MHz	Pass
15.209	Radiated Emissions	35.84 (Margin -4.16dB) - QP	Pass
15.247(b)(3)	Maximum Output Power	Power [dBm]: -0.81	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

N/A means Not Applicable. Note: The EUT consumes power from batteries, so the test is not required.

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## 1 General Description

## 1.1 Information

## 1.1.1 Specification of the Equipment under Test (EUT)

RF General Information							
Frequency Range (MHz) Bluetooth Ch. Freq. (MHz) Channel Number Data Rate							
2400-2483.5 V4.0 LE 2402-2480 0-39 [40] 1 Mbps							
Note 1: Bluetooth LE	(Low energy) uses G	FSK modulation.					

### 1.1.2 Antenna Details

Ant. No.	Brand	Model	Туре	Gain (dBi)	Connector
1	SIGNAL ELECTRONICS CO., LTD.	SMD8105-A0X	PCB	-2.39556	No

## 1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	From 1.5Vdc (x2) AAA battery
-------------------	------------------------------

#### 1.1.4 Accessories

	Accessories					
No.	Equipment	Description				
1	USB 2.0 data cable	Brand Name: BTM Model Name: USB CABLE 1.2m shielded w/o core				

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### 1.1.5 Channel List

	Frequency band (MHz)				2400~	2483.5	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

## 1.1.6 Test Tool and Duty Cycle

Test tool	Controlled by button of device
Duty cycle of test signal (%)	49.72%
Duty Factor (dB)	3.03

## 1.1.7 Power Setting

Modulation Mode			
Wodulation Wode	2402	2440	2480
GFSK/1Mbps	Default	Default	Default

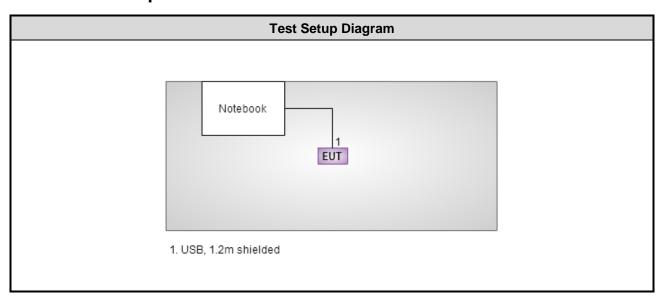
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## 1.2 Local Support Equipment List

	Support Equipment List							
No.	No. Equipment Brand Model FCC ID Signal cable / Length (m)							
1	Notebook	DELL	Latitude E6440	DoC	USB, 1.2m shielded.			

## 1.3 Test Setup Chart



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## 1.4 Test Equipment List and Calibration Data

Test Item Radiated Emission							
Test Site	966 chamber 2 / (03CH02-WS)						
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until		
Spectrum Analyzer	R&S	FSV40	101499	Dec. 17, 2015	Dec. 16, 2016		
Receiver	R&S	ESR3	101657	Jan. 12, 2016	Jan. 11, 2017		
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-523	Nov. 09, 2015	Nov. 08, 2016		
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Oct. 07, 2015	Oct. 06, 2016		
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016		
Preamplifier	Burgeon	BPA-530	100218	Nov. 03, 2015	Nov. 02, 2016		
Preamplifier	Agilent	83017A	MY39501309	Sep. 22, 2015	Sep. 21, 2016		
Preamplifier	EMC	EMC184045B	980192	Sep. 01, 2015	Aug. 31, 2016		
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 10, 2015	Dec. 09, 2016		
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 10, 2015	Dec. 09, 2016		
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 10, 2015	Dec. 09, 2016		
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Dec. 10, 2015	Dec. 09, 2016		
LF cable 10M	EMCC	CFD400-E	CFD400-001	Dec. 10, 2015	Dec. 09, 2016		
Measurement Software	AUDIX	e3	6.120210g	NA	NA		

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 03, 2015	Feb. 02, 2016
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 27, 2015	Nov. 26, 2016
Power Meter	Anritsu	ML2495A	1241002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor	Anritsu	MA2411B	1207366	Sep. 21, 2015	Sep. 20, 2016
Signal Generator	R&S	SMB100A	175727	Oct. 05, 2015	Oct. 04, 2016
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Inte	rval of instruments liste	d above is one year.			

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### 1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247 ANSI C63.10-2013 FCC KDB 558074 D01 DTS Meas Guidance v03r04

## 1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Power density	±0.463 dB
Conducted emission	±2.670 dB
AC conducted emission	±2.90 dB
Radiated emission ≤ 1GHz	±3.07 dB
Radiated emission > 1GHz	±5.60 dB

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## 2 Test Configuration

## 2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH02-WS	20°C / 68%	Morgan Chen
RF Conducted	TH01-WS	22°C / 64%	Brad Wu

FCC site registration No.: 657002IC site registration No.: 10807A-2

### 2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	BT LE	2402	1Mbps	
Radiated Emissions ≤ 1GHz	BT LE	2402	1Mbps	
Radiated Emissions > 1GHz	BT LE	2402, 2440, 2480	1Mbps	
Maximum Output Power				
6dB bandwidth	BT LE	2402, 2440, 2480	1Mbps	
Power spectral density				

#### NOTE:

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The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report.



### 3 Transmitter Test Results

### 3.1 6dB and Occupied Bandwidth

#### 3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

#### 3.1.2 Test Procedures

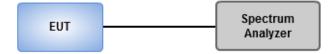
#### 6dB Bandwidth

- 1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
- 2. Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

#### **Occupied Bandwidth**

- 1. Set resolution bandwidth (RBW) = 30 kHz, Video bandwidth = 100 kHz.
- 2. Detector = Sample, Trace mode = max hold.
- 3 Sweep = auto couple, Allow the trace to stabilize.
- 4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

#### 3.1.3 Test Setup

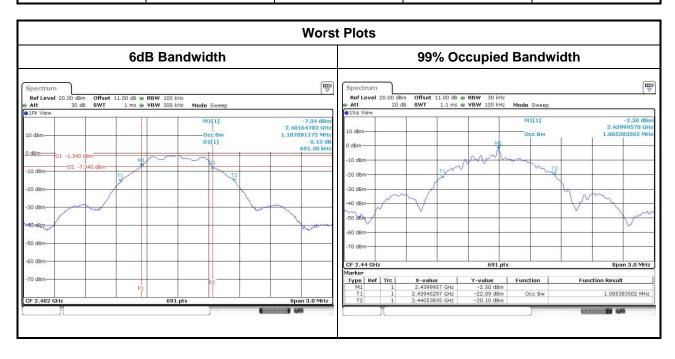


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## 3.1.4 Test Result of 6dB and Occupied Bandwidth

Mode	Freq. (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit of 6dB Bandwidth (kHz)
BT LE	2402	0.691	1.07	500
BT LE	2440	0.709	1.09	500
BT LE	2480	0.696	1.09	500



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## 3.2 RF Output Power

#### 3.2.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.

Antenna gain > 6dBi

Non Fixed, point to point operations.
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

Fixed, point to point operations
Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations, no any corresponding reduction is in transmitter peak output power

#### 3.2.2 Test Procedures

Maximum Peak Conducted Output Power

#### 

- 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
- 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
- 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.

#### Nower meter

- A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- Maximum Conducted Average Output Power (For reference only)

#### Nower meter

 A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

#### 3.2.3 Test Setup



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## 3.2.4 Test Result of Maximum Output Power

			Peak Power		Antenna	EIRP	EIRP
Mode	Freq. (MHz)	Power (mW)	Power (dBm)	Limit (dBm)	gain (dBi)	(dBm)	Limit (dBm)
BT LE	2402	0.830	-0.81	30	-2.39556	-3.20556	36
BT LE	2440	0.678	-1.69	30	-2.39556	-4.08556	36
BT LE	2480	0.545	-2.64	30	-2.39556	-5.03556	36

Mode	Freq. (MHz)	AV Power (mW)	AV Power (dBm)	Limit (dBm)
BT LE	2402	0.811	-0.91	
BT LE	2440	0.661	-1.80	
BT LE	2480	0.531	-2.75	

Note: Average power is for reference only

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### 3.3 Power Spectral Density

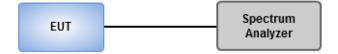
#### 3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

#### 3.3.2 Test Procedures

- Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
  - Set the RBW = 3kHz, VBW = 10kHz.
  - 2. Detector = Peak, Sweep time = auto couple.
  - 3. Trace mode = max hold, allow trace to fully stabilize.
  - 4. Use the peak marker function to determine the maximum amplitude level.
- Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
  - 1. Set the RBW = 100kHz, VBW = 300 kHz.
  - 2. Detector = RMS, Sweep time = auto couple.
  - 3. Perform the measurement over a single sweep.
  - 4. Use the peak marker function to determine the maximum amplitude level.

#### 3.3.3 Test Setup

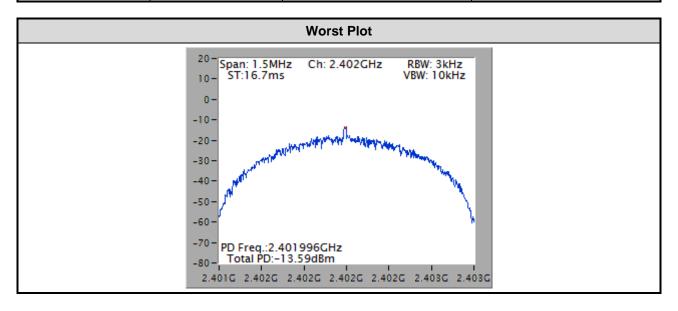


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### 3.3.4 Test Result of Power Spectral Density

Mode	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BT LE	2402	-13.59	8
BT LE	2440	-14.30	8
BT LE	2480	-14.96	8



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### 3.4 Emissions in Restricted Frequency Bands

#### 3.4.1 Limit of Emissions in Restricted Frequency Bands

	Restricted Band	Emissions Limit	
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

#### Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit **Note 2:** 

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

#### 3.4.2 Test Procedures

- 1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
- 2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

#### Note:

- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

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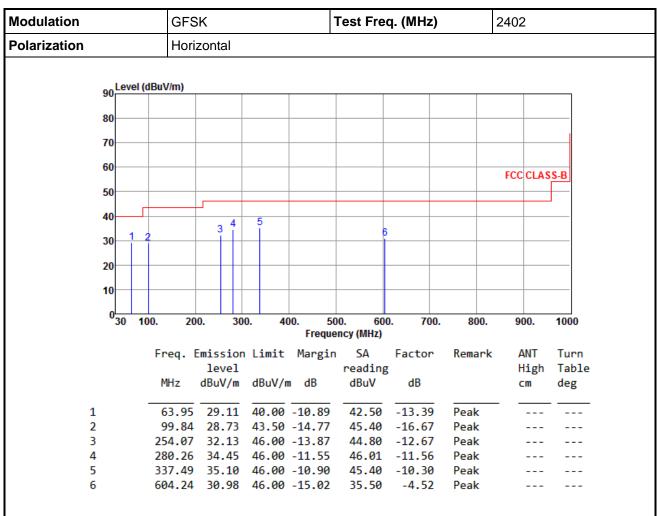
### 3.4.3 Test Setup



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### 3.4.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

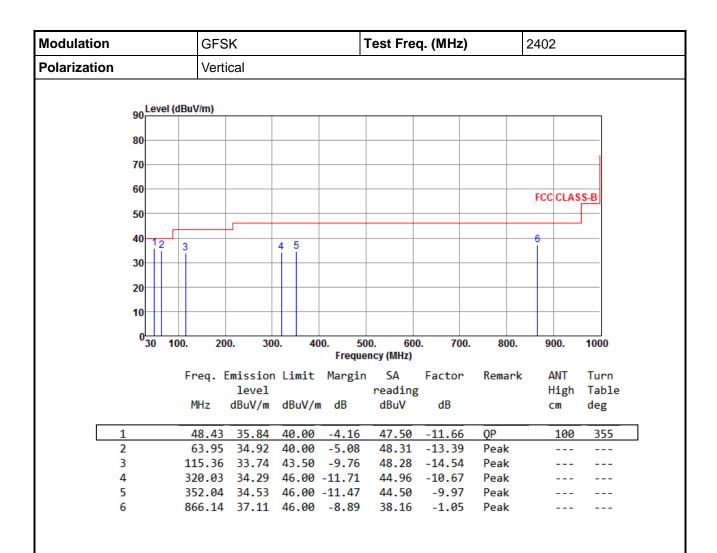
\*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor, cable loss and amplifier gain

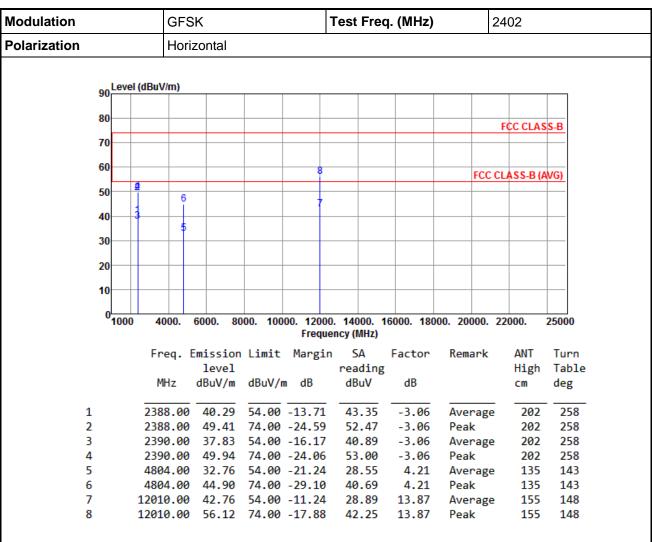
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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### 3.4.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for GFSK



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

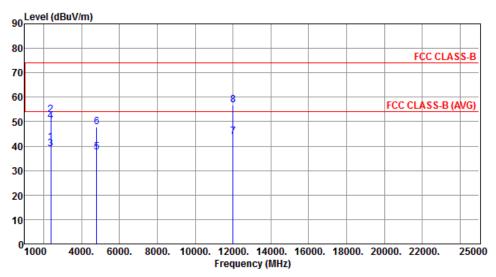
\*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Vertical		



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2388.00	41.52	54.00	-12.48	44.58	-3.06	Average	258	196
2	2388.00	52.83	74.00	-21.17	55.89	-3.06	Peak	258	196
3	2390.00	38.82	54.00	-15.18	41.88	-3.06	Average	122	184
4	2390.00	50.27	74.00	-23.73	53.33	-3.06	Peak	122	184
5	4804.00	37.49	54.00	-16.51	33.28	4.21	Average	179	203
6	4804.00	47.87	74.00	-26.13	43.66	4.21	Peak	179	203
7	12010.00	43.87	54.00	-10.13	30.00	13.87	Average	143	32
8	12010.00	56.76	74.00	-17.24	42.89	13.87	Peak	143	32

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation			GFSK Test Freq. (MHz) 2440								40				
Polarization				Hor	izonta	l			•				•		
		Lovel	(dDu)	llm\											
	90	Level	(dBu\	//III)											
	80														
													FC	CC CLAS	S-B
	70														
	60														
		2	,	+		6						FCC	C CLA	ASS-B (A	WG)
	50			4											
	40			-		5									
	20			3											
	30														
	20														
	10														
	10														
	0	1000	40	000.	6000.	80	00. 100			14000. 1 ncy (MHz)	6000. 180	00. 20000.	. 220	000.	25000
			En	en.	Fmicci	ion	limit			SA	Factor	Remark		ANT	Turn
				-4.	leve		LIMIT	· ·ui · g		reading		remark		High	Table
			М	Hz			dBuV/ı	n dB		dBuV	dB			cm	deg
1	L		237	5.00	39.2	27	54.00	-14.7	3	42.37	-3.10	Averag	e	280	284
2	2		237	5.00			74.00			53.38	-3.10	Peak		280	284
	3						54.00			28.62	4.41		e	198	38
4	1		488	0.00	45.1	19	74.00	-28.8	1	40.78	4.41	Peak		198	38

9.23

9.23

Average

Peak

174

174

11

11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

7320.00 38.08 54.00 -15.92 28.85 7320.00 50.89 74.00 -23.11 41.66

\*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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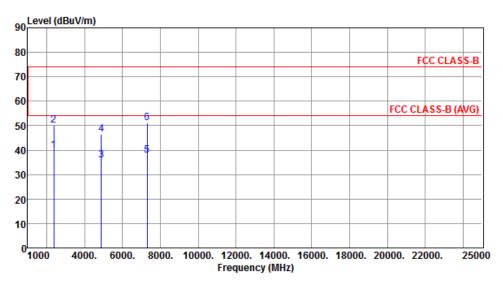
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Modulation	GFSK	Test Freq. (MHz)	2440		
Polarization	Vertical				



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2375.00	39.88	54.00	-14.12	42.98	-3.10	Average	345	168
2	2375.00	50.16	74.00	-23.84	53.26	-3.10	Peak	345	168
3	4880.00	35.79	54.00	-18.21	31.38	4.41	Average	219	220
4	4880.00	46.65	74.00	-27.35	42.24	4.41	Peak	219	220
5	7320.00	37.99	54.00	-16.01	28.76	9.23	Average	214	0
6	7320.00	51.11	74.00	-22.89	41.88	9.23	Peak	214	0

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation Polarization				GFSK					1	Test Freq. (MHz)						24	2480		
				Horizontal															
	90	Level	(dBuV	/m)															
	80																		
	70															F	CC CLAS	S-B	
	60					6									F	CC CL	ASS-B (A	VG)	
	50		2 <u> </u>	4		Ť						+			+				
	40		-		_	5													
	30			3															
	20																		
	10																		
	0	1000	40	00.	6000.	800	00. 10		12000 Freque			1600	0. 180	000.	2000	0. 22	000.	25000	
			Fre	eq. I	missi	on	Limit	Ma	argin	S	Α	Fa	ctor	Re	emar	٠k	ANT	Tur	
					leve	_					ding						High	Tab	
			Mi	łz	dBuV,	m	dBuV/	m c	1B	dВ	uV	(	dB				CM	deg	
1			2483	3.50	38.1	8	54.00	-15	5.82	40	.87	-:	2.69	A	vera	age	274	31	
2				3.50		_	74.00				.69		2.69		eak		274	31	
3 4				0.00			54.00 74.00				.38		4.62 4.62		vera eak	_	176 176	4	
5							54.00				.54		9.47		eak vera		155	18	
6							74.00				.63		9.47		eak	_	155	18	

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

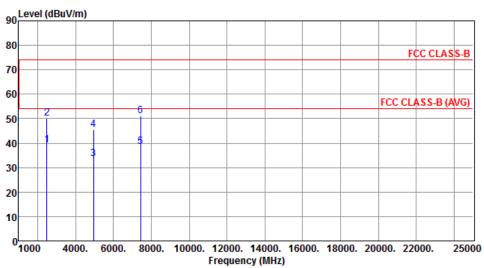
\*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
4	2402 50	70. 20	<u></u>	44.74	44.00			200	400
1	2483.50	39.29	54.00	-14./1	41.98	-2.69	Average	288	188
2	2483.50	50.07	74.00	-23.93	52.76	-2.69	Peak	288	188
3	4960.00	33.62	54.00	-20.38	29.00	4.62	Average	204	152
4	4960.00	45.51	74.00	-28.49	40.89	4.62	Peak	204	152
5	7440.00	38.37	54.00	-15.63	28.90	9.47	Average	288	310
6	7440.00	51.15	74.00	-22.85	41.68	9.47	Peak	288	310

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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## 3.5 Emissions in non-restricted Frequency Bands

### 3.5.1 Emissions in non-restricted frequency bands limit

The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

#### 3.5.2 Test Procedures

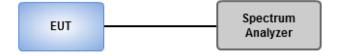
#### Reference Level Measurement

- 1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
- 2. Set Sweep time = auto couple, Trace mode = max hold.
- 3. Allow trace to fully stabilize.
- 4. Use the peak marker function to determine the maximum amplitude level.

#### **Unwanted Emissions Level Measurement**

- 1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
- 2. Trace Mode = max hold, Sweep = auto couple.
- 3. Allow the trace to stabilize.
- 4. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

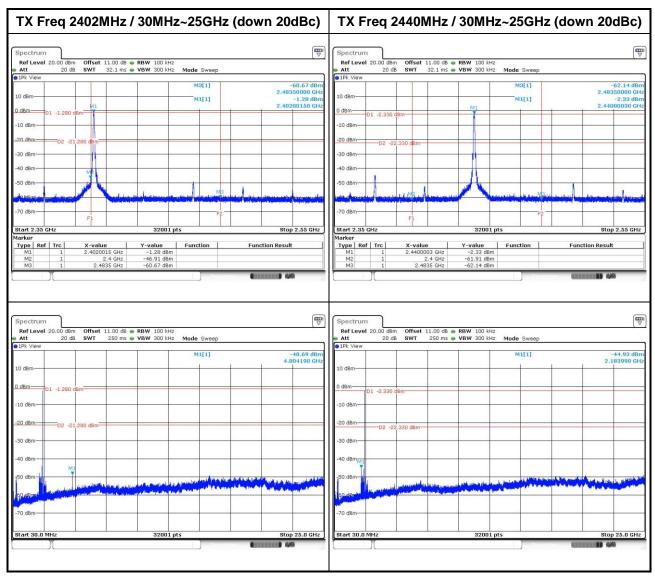
#### 3.5.3 Test Setup



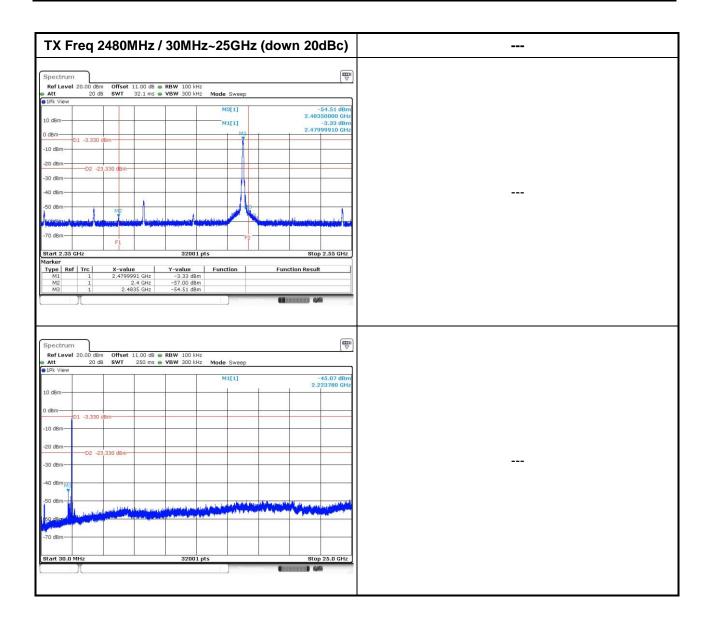
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### 3.5.4 Test Result of Emissions in non-restricted Frequency Bands



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## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <a href="http://www.icertifi.com.tw">http://www.icertifi.com.tw</a>.

Linkou

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No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan,

R.O.C.

Kwei Shan

Tel: 886-3-271-8666 No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C. Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666 Fax: 886-3-318-0155

Email: ICC\_Service@icertifi.com.tw

<u>==END</u>==

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