

FCC C2PC Test Report

FCC ID : SQGBT800

Equipment : BTv4.0 Dual Mode USB HCI Module

(Please refer to section 1.1.1 for more details)

Model No. : BT800

(Please refer to section 1.1.1 for more details)

Brand Name : Laird Technologies

Applicant : Laird Technologies

Address : 11160 Thompson Ave. / Lenexa, Kansas /

66219 / USA

Standard : 47 CFR FCC Part 15.247

Received Date : Sep. 03, 2014

Tested Date : Sep. 10 ~ Sep. 11, 2014

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
FR490301AE	Rev. 01	Initial issue	Sep. 19, 2014

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Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.154MHz 59.21 (Margin -6.57dB) - QP	Pass
15.247(d)	Radiated Emissions	[dBuV/m at 3m]: 2483.50MHz	Pass
15.209	Radiated Effissions	50.65 (Margin -3.35dB) - AV	F d 5 5
15.247(b)(3)	Fundamental Emission Output Power	Power [dBm]: 7.87	Pass
15.247(a)(2)	6dB Bandwidth	Note	Note
15.247(e)	Power Spectral Density	Note	Note
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Note: This C2PC is adding new antenna that will not impact original test result thus this item is not re-evaluated.

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1 General Description

1.1 Information

This report is prepared for FCC class II change.

This report is issued as a duplicate report to original ICC report no. FR362601AE. The modification is adding external antenna and model name for this change. In this report, conducted power, AC power line conducted emission and radiated emission tests had been re-tested and only its data was recorded in the following sections

1.1.1 Product Details

The following models are provided to this EUT. (Additional model was marked in boldface.)

Model Name	Description	Difference
BT800	BTv4.0 Dual Mode USB HCI Module	
BT810	BTv4.0 Dual Mode USB HCI Module (BG carrier board)	BT800 module mounted onto a PCB carrier board to change footprint – no other differences.
BT820	BTv4.0 Dual Mode USB Dongle	BT800 module mounted onto a carrier board with USB connector.
BT800-ST	BTv4.0 Dual Mode USB HCI Module – External Antenna variant	BT800 module mounted onto a PCB carrier board with external chip antenna.

1.1.2 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	Note 1: Bluetooth LE (Low energy) uses GFSK modulation.							

1.1.3 Antenna Details

Ant. No.	Brand	Model	Туре	Connector	Antenna Gain (dBi)	Remark
1	ACX	AT3216-B2R7HAA_3216	chip	N/A	0.5	For BT800, BT810 & BT820
2	ACX	AT3216-B2R7HAA	chip	UFL	0.5	For BT800-ST

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host
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1.1.5 Accessories

N/A

1.1.6 Channel List

	Frequency band (MHz)				2400~2	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

1.1.7 Test Tool and Duty Cycle

Test tool	Blue Tool V2.5
Duty cycle of test signal (%)	66.67%
Duty Factor (dB)	1.76

1.1.8 Power Setting

Madulation Mada	Test Frequency (MHz)				
Modulation Mode	2402	2440	2480		
GFSK/1Mbps	Default	Default	Default		

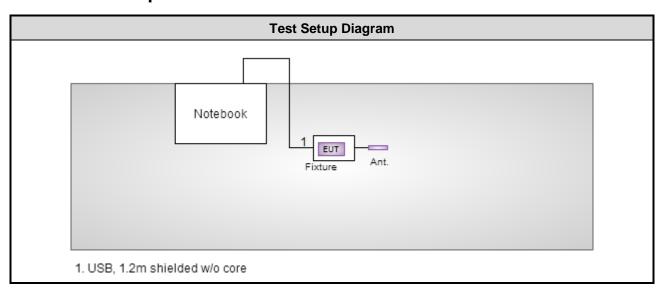
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1.2 Local Support Equipment List

	Support Equipment List							
No. Equipment Brand Model S/N FCC ID				Length (m)				
1	Notebook	DELL	E6430		DoC	USB, 1.2m shielded w/o core		

1.3 Test Setup Chart



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1.4 Test Equipment List and Calibration Data

Test Item	Test Item Conducted Emission								
Test Site	Conduction room 1 / (Conduction room 1 / (CO01-WS)							
Instrument	rument Manufacturer Model No. Serial No. Calibration Date Calibration Until								
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014				
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014				
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014				
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 23, 2014	Apr. 22, 2015				
50 ohm terminal (Support Unit)	NA	50	04	Apr. 18, 2014	Apr. 17, 2015				
Note: Calibration Inte	Note: Calibration Interval of instruments listed above is one year.								

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH	101-WS)			
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Jan. 25, 2014	Jan. 24, 2015
Receiver	R&S	ESR3	101658	Jan. 10, 2014	Jan. 09, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 02, 2014	Jan. 01, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 13, 2014	Feb. 12, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014
Preamplifier	Burgeon	BPA-530	SN:100219	Nov. 28, 2013	Nov. 27, 2014
Preamplifier	Agilent	83017A	MY39501308	Dec. 16, 2013	Dec. 15, 2014
Preamplifier	WM	TF-130N-R1	923365	Oct. 23, 2013	Oct. 22, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 16, 2013	Dec. 15, 2014
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 16, 2013	Dec. 15, 2014
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 16, 2013	Dec. 15, 2014
Note: Calibration Inter	rval of instruments listed	d above is one year.			

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Note: Calibration Inter	rval of instruments liste	d above is two year.			

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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. 17, 2014	Feb. 16, 2015
Power Meter	Anritsu	ML2495A	1241002	Oct. 24, 2013	Oct. 23, 2014
Power Sensor	Anritsu	MA2411B	1207366	Oct. 24, 2013	Oct. 23, 2014
Note: Calibration Inte	rval of instruments listed	d above is one year.			

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 C63.10-2009 FCC KDB 558074 D01 DTS Meas Guidance v03r02

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
Frequency error	±34.134 Hz
Temperature	±0.6 °C
Conducted emission	±2.670 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.26 dB
Radiated emission > 1GHz	±4.94 dB

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2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 62%	Skys Huang
Radiated Emissions	03CH01-WS	22°C / 68%	Anderson Hung
RF Conducted	TH01-WS	22°C / 63%	Felix Sung

FCC site registration No.: 657002IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data Rate (Mbps)	Test Configuration
AC Power Line Conducted Emissions	BT LE	2480	1Mbps	
Radiated Emissions ≤ 1GHz	BT LE	2480	1Mbps	
Radiated Emissions > 1GHz	BT LE	2402, 2440, 2480	1Mbps	
Fundamental Emission Output Power	BT LE	2402, 2440, 2480	1Mbps	

NOTE:

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^{1.} 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 Conducted Emissions

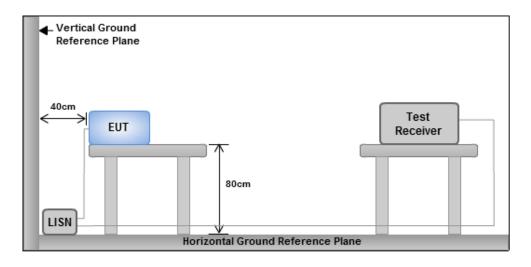
3.1.1 Limit of Conducted Emissions

	Conducted Emissions Limit	
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarith	m of the frequency.	·

3.1.2 Test Procedures

- 1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
- 2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
- 3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
- 4. This measurement was performed with AC 120V/60Hz

3.1.3 Test Setup



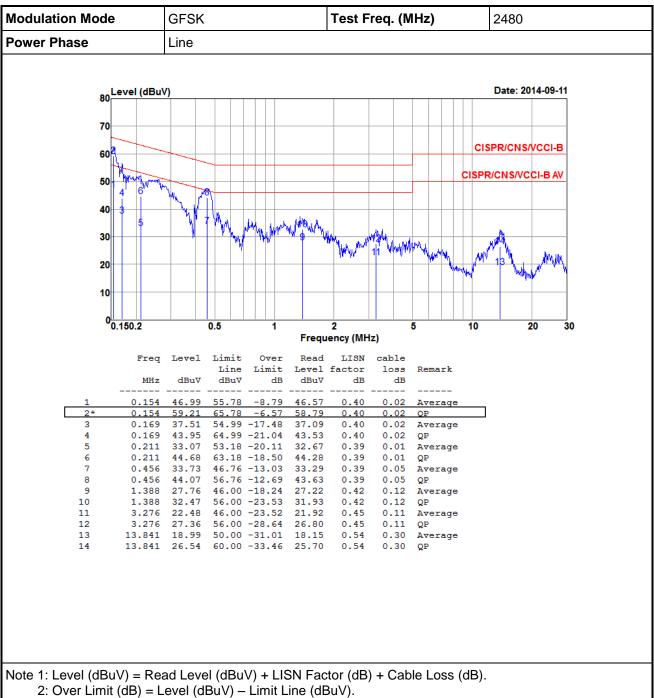
Note: 1. Support units were connected to second LISN.

Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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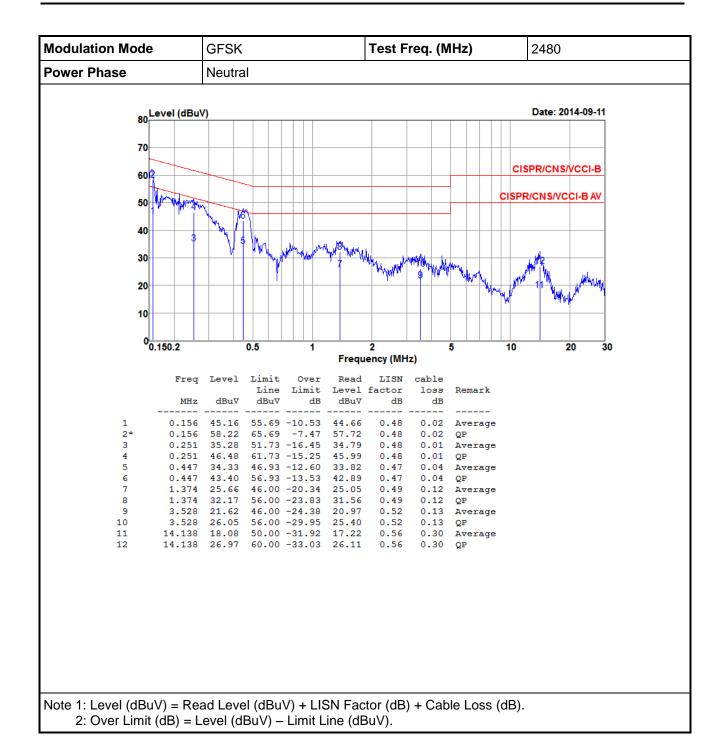


Test Result of Conducted Emissions 3.1.4



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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

Freq. (MHz)	Peak Conducted Power (dBm)	Limit (dBm)
2402	6.21	30
2440	7.46	30
2480	7.87	30

Freq. (MHz)	Average Conducted Power (dBm)	Limit (dBm)
2402	5.95	30
2440	7.22	30
2480	7.58	30

Note: Average power is for reference only.

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3.3 Emissions in Restricted Frequency Bands

3.3.1 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.

3.3.2 Test Procedures

- 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 a height of 0.8 m test table above the ground plane.
- 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.

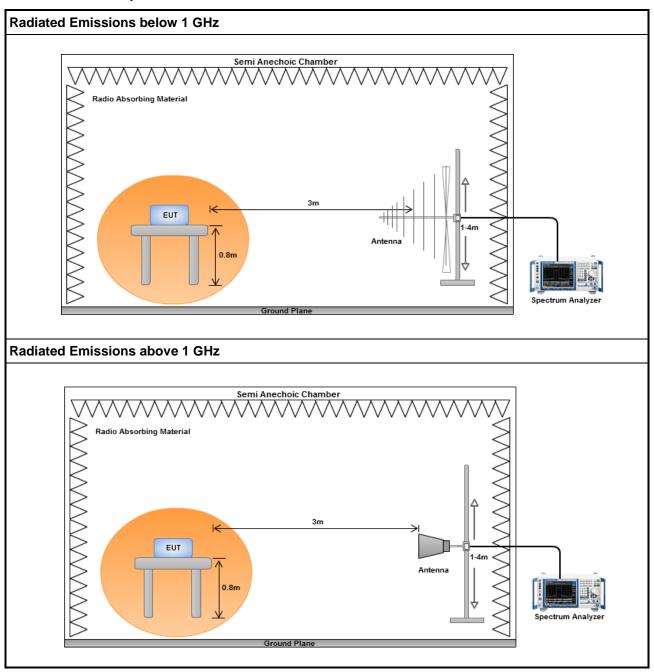
Note:

- 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.
- 3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

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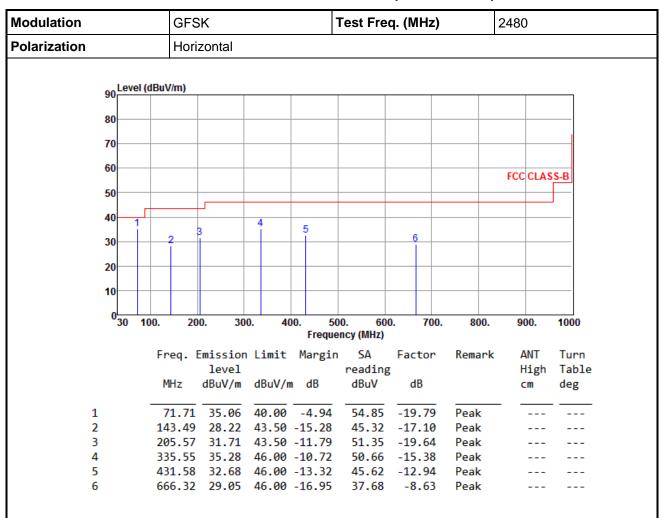
3.3.3 Test Setup



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3.3.4 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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Modulation			GFSK				Te	Test Freq. (MHz)				2480				
Polarization				Verti	cal								•			
	90	Leve	l (dBu	ıV/m)												
	00															
	80															
	70								+							
	60		+						+							
	50													FCC	CLAS	2-B
	50															
	40	_				١.	_		+							
	30		2			3 4	5 —	6	_							
	20															
	20															
	10								+							
	0	30	100.	200	0. 30	00.	4		500. uenc	60 cy (MHz)	0. 70	00.	800.	9	00.	1000
			F	req. E	missio	n Lim	iit	Marg	in	SA	Facto	r	Remark	4	ANT	Turn
				-	level			_		reading				H	ligh	Table
				MHz	dBuV/m	dBu	ıV/ı	m dB		dBuV	dB			(m	deg
	1		_	71.71	31.84	40.	00	-8.1	 5	51.63	-19.7	9	Peak			
	2			98.87	30.59			-12.9		52.55			Peak			
	3			99.66	29.21			-16.79		45.37			Peak			
	4			35.55 64.65	31.40 31.96			-14.6			-15.3		Peak Peak			
	5 6			53.89				-14.04 -15.9		42.46	-14.6 -12.4		Peak Peak			

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

*Factor includes antenna factor, cable loss and amplifier gain

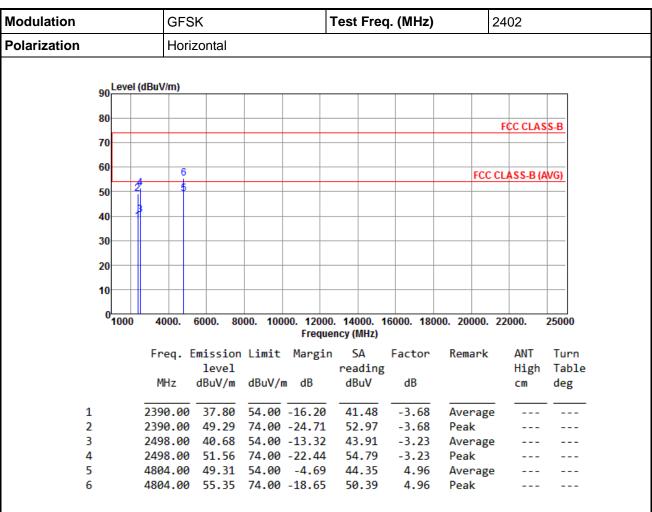
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

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3.3.5 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	GF:	SK		7	Test Fre	q. (MHz)		2402	
Polarization	Ver	tical		•			•		
90 Lev	el (dBuV/m)								
80									
								FCC CLAS	SS-B
70									
60							FCC	CLASS-B (A	M/G)
50	24						100	CLM33-D (A	- VO)
40	3								
30									
20									
10									
0 100	0 4000.	6000. 8	000. 100		. 14000.	16000. 180	00. 20000.	22000.	25000
	Frea.	Emission	n Limit	Margin		Factor	Remark	ANT	Turn
		level			reading			High	Tabl
	MHz	dBuV/m	dBuV/	m dB	dBuV	dB		CM	deg
1	2390.00	37.64	54.00	-16.36	41.32	-3.68	Average		
2	2390.00	48.74		-25.26	52.42	-3.68	Peak		
3		36.95			40.18	-3.23	Average		
4		49.45			52.68	-3.23	Peak		
5 6		45.66 52.89			40.70 47.93	4.96 4.96	Average Peak		

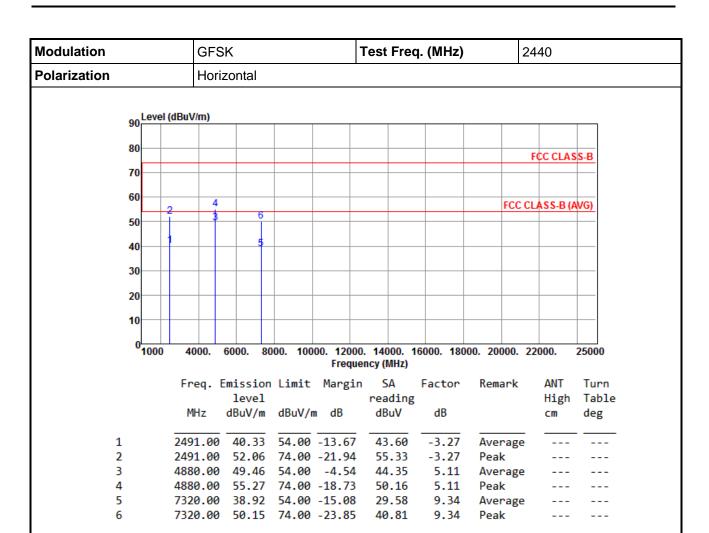
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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

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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

4

5

6

Modulation Polarization			GFSK				Test Freq. (MHz)				24	2440		
			Vertical											
	90 Le	evel (dB	uV/m)											
	80-													
											F	CC CLAS	S-B	
	70													
	60										ree et	A C C D /A	140	
	50	2	4	6							FCC CLA	ASS-B (A	WG)	
	50		1											
	40	++		- 5									-	
	30													
	20													
	20													
	10												-	
	0		1000	2000									25222	
	10	000	4000.	6000. 8	3000. 100	00. 1200 Frequ	io. 1400 iency (Mi		000. 180	00. 200	00. 22	000.	25000	
		F	rea.	Emissio	n Limit	Margi	n SA		Factor	Rema	ırk	ANT	Turn	
			4- '	level		62	read					High	Table	
			MHz	dBuV/m	dBuV/	m dB	dBu	_	dB			cm	deg	
	1	2/	01 00	27 12	54.00	16 99	40		2 27	A			- ——	
	1 2				74.00				-3.27 -3.27	Aver Peak	_			
	_									· can	-			

5.11

5.11

9.34

9.34

Average

Average

Peak

Peak

4880.00 46.77 54.00 -7.23 41.66

4880.00 53.63 74.00 -20.37 48.52 7320.00 38.40 54.00 -15.60 29.06 7320.00 49.89 74.00 -24.11 40.55

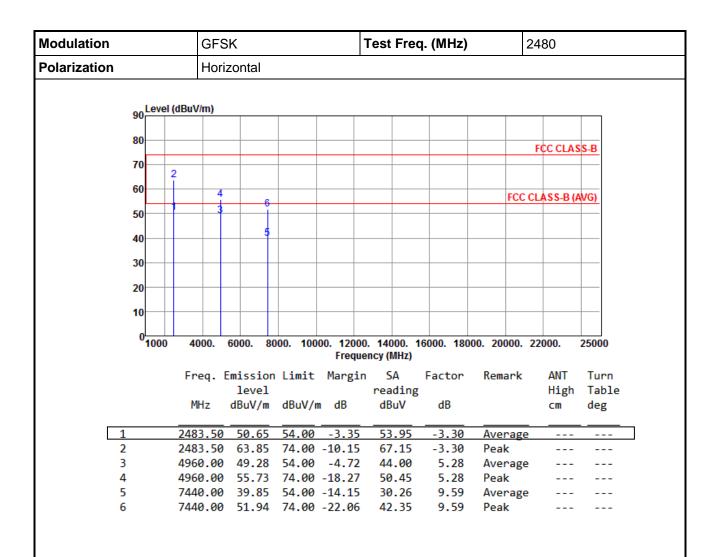
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

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

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

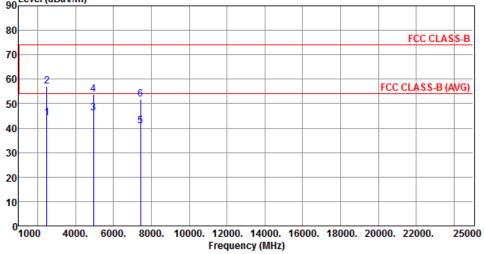
*Factor includes antenna factor, cable loss and amplifier gain

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

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Modulation	GFSk	GFSK				Test Freq. (MHz)				2480		
Polarization	Vertic	al										
90	evel (dB	uV/m)										
80										F	CC CLAS	SS-B
70												



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2483.50	44.24	54.00	-9.76	47.54	-3.30	Average		
2	2483.50	57.24	74.00	-16.76	60.54	-3.30	Peak		
3	4960.00	46.11	54.00	-7.89	40.83	5.28	Average		
4	4960.00	53.64	74.00	-20.36	48.36	5.28	Peak		
5	7440.00	40.87	54.00	-13.13	31.28	9.59	Average		
6	7440.00	51.72	74.00	-22.28	42.13	9.59	Peak		

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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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 http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

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

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