

TEST REPORT

FCC ID: 2AHW7G5

Applicant : Guilin Feiyu Technology Incorporated Company

Address : 3rd Floor, B,Guilin Electric Valley, Innovation Building, Information Industry Park,

ChaoYang Road ,Qi Xing District , China

Equipment under Test (EUT):

Name	:	Gimbal]
Model	:	G5	

Standards: FCC PART 15, SUBPART C : 2015 (Section 15.247)

ANSI C63.4:2014 ; ANSI C63.10:2013

Report No : T1862139 01

Date of Test: October 31- November 15, 2016

Date of Issue: December 06, 2016

Test Result : PASS

In the configuration tested, the EUT complied with the standards specified above Authorized Signature

(Mark Zhu) Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Alpha Product Testing Co., Ltd. Or test done by Shenzhen Alpha Product Testing Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd. Approvals in writing.

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1 General Information

1.1 Description of Device (EUT)

Trade Name : FeiyuTech

EUT : Gimbal

Model No. G5
DIFF : N/A

Radio Technology: Bluetooth 4.0

Antenna Type : Integrated Antenna, Maximum Gain is 1.68dBi.

Operation : 2402MHz -2480MHz

frequency

Channel No. 40 Channels

Modulation : GFSK

Power Supply : DC 3.7V from battery

Applicant : Guilin Feiyu Technology Incorporated Company

Address : 3rd Floor, B,Guilin Electric Valley, Innovation Building, Information Industry

Park, ChaoYang Road, Qi Xing District, China

Manufacturer : Guilin Feiyu Technology Incorporated Company

Address : 3rd Floor, B,Guilin Electric Valley, Innovation Building, Information Industry

Park, ChaoYang Road, Qi Xing District, China

1.2 Description of Test Facility

Shenzhen Alpha Product Testing Co., Ltd Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road, Bao'an, Shenzhen, China

March 25, 2015 File on Federal Communication Commission

Registration Number: 203110

July 18, 2014 Certificated by IC Registration Number: 12135A

2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Cal Due to	Cal Interval
3m Semi-Anechoic	CHENYU	N/A	N/A	2018.01.18	2Year
Spectrum analyzer	Agilent	E4407B	MY46185649	2017.01.16	1Year
Receiver	R&S	ESPI	101873	2017.01.16	1Year
Receiver	R&S	ESCI	101165	2017.01.16	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	VULB9168-438	2018.01.18	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2017.01.20	2Year
Cable	Resenberger	N/A	No.1	2017.01.16	1Year
Cable	SCHWARZBECK	N/A	No.2	2017.01.16	1Year
Cable	SCHWARZBECK	N/A	No.3	2017.01.16	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2017.01.18	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2017.01.18	1Year
vector Signal Generator	Agilent	N5182A	MY49060042	2016.11.16	1 Year
vector Signal Generator	Agilent	E4438C	US44271917	2016.11.16	1 Year
X-series USB Peak and Average Power Sensor	Agilent	U2021XA	MY54080020	2016.11.16	1 Year

X-series USB Peak and Average Power Sensor	Agilent	U2021XA	MY54110001	2016.11.16	1 Year
Signal Analyzer	Agilent	N9020A	MY48030494	2016.11.16	1 Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2017.01.19	1Year
L.I.S.N.#2	ROHDE&SCHWA RZ	ENV216	101043	2017.01.19	1 Year

3 Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard ANSI C63.4:2014 using a 50 u H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard ANSI C63.4:2014 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading. Example:

Freq (MHz) METER READING + ACF + CABLE = FS 33.20 dBuV + 10.36 dB + 0.9 dB = 44.46 dBuV/m @ 3m

ANSI STANDARD ANSI C63.4:2014 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard ANSI C63.4:2014 10.1.7 with the EUT 40 cm from the vertical ground wall.

4 Summary of Measurement

4.1 Summary of test result

Test Item	Test Requirement	Standards Paragraph	Result
Spurious Emission	FCC PART 15:2015	Section 15.247	Compliance
Conduction Emission	FCC PART 15:2015	Section 15.207	Compliance
Bandwidth Test	FCC PART 15:2015	Section 15.247	Compliance
Peak Power	FCC PART 15:2015	Section 15.247	Compliance
Power Density	FCC PART 15:2015	Section 15.247	Compliance
Band Edge	FCC PART 15:2015	Section 15.247	Compliance
Antenna Requirement	FCC PART 15:2015	Section 15.203	Compliance

Note: The EUT has been tested as an independent unit. And Continual Transmitting in maximum power.

4.2 Test connection

EUT

4.3 Assistant equipment used for test

Description	:	Notebook	
Manufacturer	:	ACER	
Model No.	:	ZQT	
Remark: FCC DOC approved			

4.4 Test mode

Dutycycle:100%			
Keeping TX			
Mode	data rate	Channel	Frequency
	(Mpbs)(see Note)		(MHz)
	1	Low:CH1	2402
GFSK	1	Middle: CH19	2440
	1	High: CH39	2480

Note: According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test.

4.5 Test Conditions

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

4.6 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m	2.13 dB	Polarize: V
chamber (below 30MHz)	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	3.54dB	Polarize: V
chamber (30MHz to 1GHz)	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	2.08dB	Polarize: H
chamber (1GHz to 25GHz)	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10-9	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

5 Spurious Emission

5.1 Radiation Emission

5.1.1 Radiation Emission Limits(15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

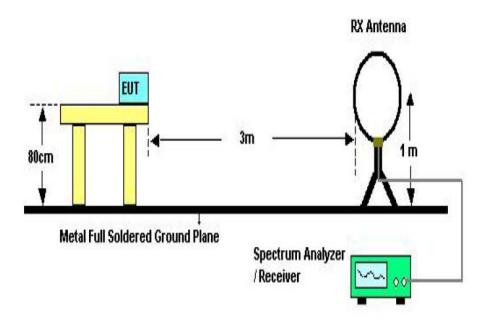
Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

NOTE:

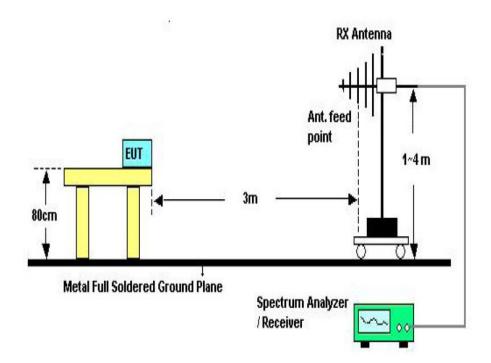
- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(uv/m)

5.1.2 Test Setup

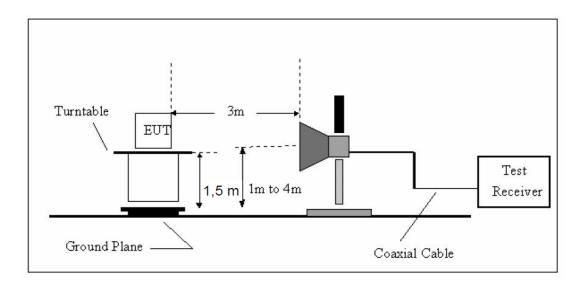
See the next page



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

5.1.3 Test Procedure

- a) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above1GHz testing, The table was rotated 360 degrees to determine the position of the highest radiation
- b) The Test antenna shall vary between 1m and 4m,Both Horizontal and Vertical antenna are set of make measurement.
- c) The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured
- d) If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- e) For the actual test configuration, please see the test setup photo.

5.1.4 Test Equipment Setting For emission test Result

9KHz~150KHz	RBW 200Hz	VBW1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHZ~1GHz	RBW 120KHz	VBW 300KHz

Above 1GHz RBW 1MHz VBW 3MHz

5.1.5 Test Condition

Continual Transmitting in maximum power.

5.1.6 Test Result

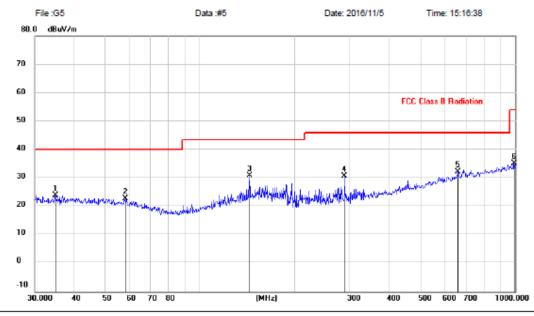
We have scanned the 9KHz from 25GHz to the EUT. Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

H:

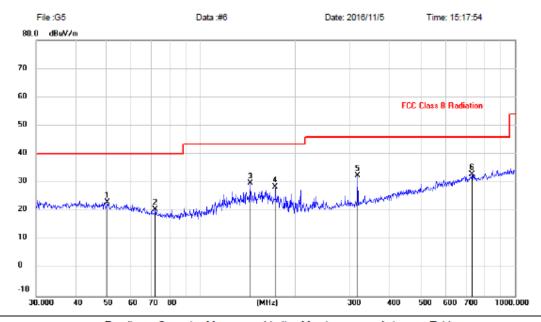
Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		34.8823	10.40	13.51	23.91	40.00	-16.09	peak			
2		58.2030	9.57	13.13	22.70	40.00	-17.30	peak			
3	*	143.8295	16.68	14.11	30.79	43.50	-12.71	peak			
4		287.9904	17.56	13.09	30.65	46.00	-15.35	peak			
5		661.1505	11.92	20.24	32.16	46.00	-13.84	peak			
6		989.5355	11.51	23.60	35.11	54.00	-18.89	peak			

V:

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		50.4089	9.31	13.68	22.99	40.00	-17.01	peak			
2		71.8320	9.84	10.70	20.54	40.00	-19.46	peak			
3		143.8295	15.64	14.11	29.75	43.50	-13.75	peak			
4		173.2050	15.04	13.25	28.29	43.50	-15.21	peak			
5	,	316.5889	18.65	13.79	32.44	46.00	-13.56	peak			
6	*	731.9202	11.45	21.37	32.82	46.00	-13.18	peak			

Above 1GHz

		1GF	Iz—25GI	Iz Radi	ated em	nissison Tes	st result		
EUT	: Gimbal]	M/N: G5						
Powe	er: DC 3.	7V from ba	ttery						
Test	date: 201	6-11-04	Test site:	3m Ch	amber	Tested by	: Store Chu	ı	
Test	mode: G	FSK Tx CH	I1 2402M	Hz		<u>_</u>			
Ante	nna polai	rity: Vertica	ıl						
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	43.73	33.95	10.18	34.26	53.6	74	20.4	PK
2	4804	32.89	33.95	10.18	34.26	42.76	54	11.24	AV
3	7206	/							
4	9608	/							
5	12010	/							
Ante	nna Pola	rity: Horizo	ntal						
1	4804	44.08	33.95	10.18	34.26	53.95	74	20.05	PK
2	4804	32.94	33.95	10.18	34.26	42.81	54	11.19	AV
3	7206	/							
4	9608	/							

5 Note:

12010

- 1,Measuring frequency from 1GHz to 25GHz
- 2,Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2,Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

1GHz—25GHz Radiated emissison Test result

EUT: Gimbal M/N: G5

Power: DC 3.7V from battery

Test date: 2016-11-04 Test site: 3m Chamber Tested by: Store Chu

Test mode: GFSK Tx CH20 2440MHz

Antenna polarity: Vertical

No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880	43.56	33.93	10.2	34.29	53.4	74	20.6	PK
2	4880	32.58	33.93	10.2	34.29	42.42	54	11.58	AV
3	7320	/							
4	9760	/							
5	12200	/							
Anter	nna Polari	ty: Horizon	ıtal						
1	4880	43.73	33.93	10.2	34.29	53.57	74	20.43	PK
2	4880	32.07	33.93	10.2	34.29	41.91	54	12.09	AV
3	7320	/							
4	9760	/							
5	12200	/							

Note:

- 1, Measuring frequency from 1GHz to 25GHz
- 2,Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2,Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

EUT	T: Gimb	al M/N	: G5						
Pow	er: D	C 3.7V from	battery						
Test	date: 2	016-11-04	Test si	te: 3m (Chamber	Tested by	: Store Chu		
Test	mode:	GFSK Tx C	H40 2480	MHz					
Ante	enna po	larity: Verti	cal						
No	-	Read Level (dBuV/m)	Hactor	Cable loss (dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	44.19	33.98	10.22	34.25	54.14	74	19.86	PK
2	4960	32.7	33.98	10.22	34.25	42.65	54	11.35	AV
3	7440	/							
4	9920	/							
5	12400	/							
Ante	enna Po	larity: Horiz	zontal						
1	4960	44.28	33.98	10.22	34.25	54.23	74	19.77	PK
2	4960	33.18	33.98	10.22	34.25	43.13	54	10.87	AV

1GHz—25GHz Radiated emissison Test result

5 1 Note:

3

4

7440

9920

12400

1, Measuring frequency from 1GHz to 25GHz

/

- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2,Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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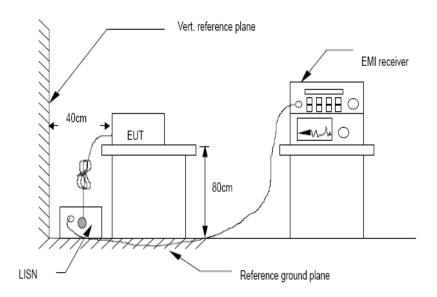
6 POWER LINE CONDUCTED EMISSION

6.1 Conducted Emission Limits(15.207)

Frequency	Limits dB(μV)					
MHz	Quasi-peak Level	Average Level				
0.15 -0.50	66 -56*	56 - 46*				
0.50 -5.00	56	46				
5.00 -30.00	60	50				

- Notes: 1. *Decreasing linearly with logarithm of frequency.
 - 2. The lower limit shall apply at the transition frequencies.
 - 3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

6.2 Test Setup

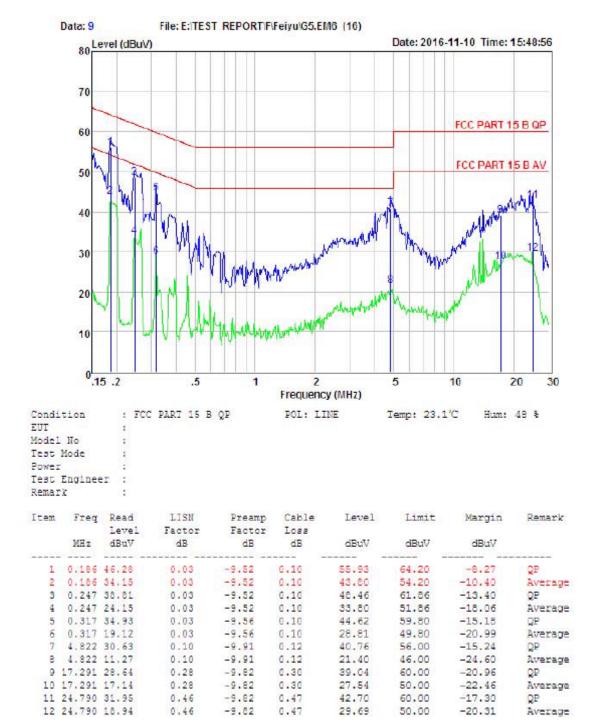


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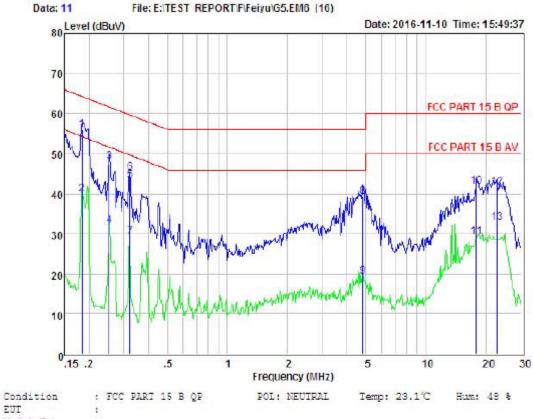
6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI ANSI C63.4:2014 on Conducted Emission Measurement. The bandwidth of test receiver (R & S ESCI) is set at 9 kHz.

6.4 Test Results Pass



Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss



Condition :
EUT :
Model No :
Test Mode :
Power :
Test Engineer :
Remark :

Item	Freq	Read Level	LISN Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.184	46.34	0.03	-9.52	0.10	55.99	64.28	-8.29	QP
2	0.184	30.32	0.03	-9.52	0.10	39.97	54.28	-14.31	Average
3	0.253	38.34	0.03	-9.56	0.10	48.03	61.64	-13.61	QP
4	0.253	22.35	0.03	-9.56	0.10	32.04	51.64	-19.60	Average
5	0.322	33.60	0.03	-9.56	0.10	43.29	59.66	-16.37	QP
6	0.322	35.60	0.03	-9.56	0.10	45.29	59.66	-14.37	QP
7	0.322	19.53	0.03	-9.56	0.10	29.22	49.66	-20.44	Average
8	4.822	29.11	0.10	-9.91	0.12	39.24	56.00	-16.76	QP
9	4.822	9.26	0.10	-9.91	0.12	19.39	46.00	-26.61	Average
10	18,039	31.48	0.29	-9.82	0.32	41.91	60.00	-18.09	QP
11	18.039	18.77	0.29	-9.82	0.32	29.20	50.00	-20.80	Average
12	22.655	30.91	0.41	-9.81	0.42	41.55	60.00	-18.45	QP
13	22.655	22.14	0.41	-9.81	0.42	32.78	50.00	-17.22	Average

Remark: Level = Read Level + LISN Factor - Freamp Factor + Cable Loss

7 Conducted Peak Maximum Output Power

7.1 Test limit

Please refer section 15.247.

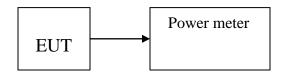
7.2 Test Procedure

Details see the KDB558074 Meas Guidance V03

- 7.2.1 Place the EUT on the table and set it in transmitting mode.
- 7.2.2 Measure out each mode and each bands peak output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset. Details see the KDB558074 DTS Meas Guidance V03

7.3 Test Setup



7.4 Test Results

PASS

Detailed information please see the following page.

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EUT: Gimbal	M/N: G5					
Test date: 2016-11-0-	4 Test site	: RF site	Tested by: Eric Huang			
Mode	Frequency (MHz)	PK Output power(dBm)	Limit (dBm)	Judgment		
	СН0: 2402	-5.51	30	Pass		
GFSK	CH19: 2440	-4.48	30	Pass		
	CH39: 2480	-4.96	30	Pass		
Conclusion: PASS			-			

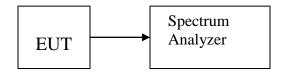
8 PEAK POWER SPECTRAL DENSITY

- 8.1 Test limit
- 8.1.1 Please refer section 15.247.
- 8.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.
- 8.2 Method of measurement

Details see the KDB558074 DTS Meas Guidance V03

- 8.2.1 Place the EUT on the table and set it in transmitting mode.
- 8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 8.2.3 Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, span=5-30%EBW, detail see the test plot.
- 8.2.4 Record the max reading.
- 8.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

8.3 Test Setup

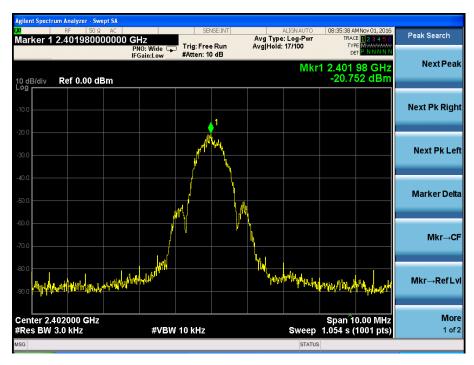


8.4 Test Results

PASS.
Detailed information please see the following page.

EUT: Gimbal	M/N: G5			
Test date: 2016-11-0	Test site:	RF site Tes	ted by: Eric Hua	ng
Mode	Frequency (MHz)	PK Output power(dBm)	Limit (dBm)	Result
	CH0: 2402	-20.752	8	PASS
GFSK	CH19: 2440	-19.827	8	PASS
	CH39: 2480	-20.712	8	PASS
Conclusion: PASS				

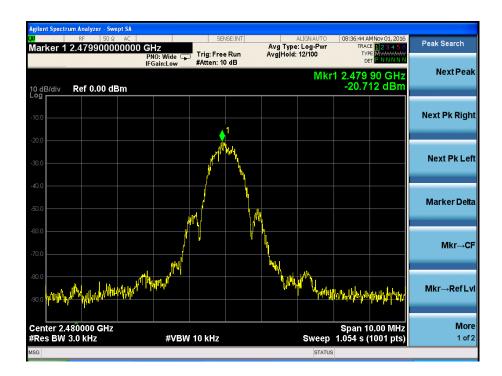
GFSK: CH Low:



CH Mid:



CH Hig:



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9 Bandwidth

9.1 Test limit

Please refer section 15.247

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

9.2 Method of measurement

Details see the KDB558074 D01 Meas Guidance

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set RBW = 1-5 % EBW, VBW≥3RBW, Sweep time set auto, detail see the test plot. Peak detector is used.

9.3 Test Setup



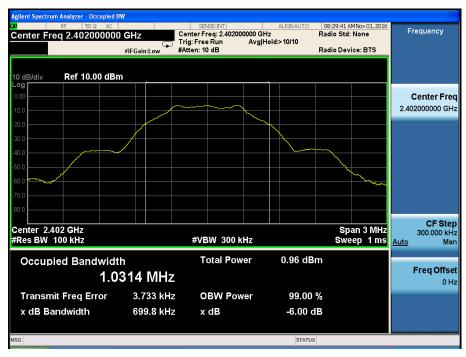
9.4 Test Results

PASS.

Detailed information please see the following page.

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK:	(1,1112)	, ,	,	(1,1112)	
Low	2402	0.6998	/	0.5	PASS
Mid	2440	0.6958	/	0.5	PASS
High	2480	0.6952	/	0.5	PASS

GFSK: CH Low:



CH Mid:



CH High:



10 Band Edge Check

10.1 Test limit

Please refer section 15.247.

10.2 Test Procedure

- 12.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- 12.2.2 Check the spurious emissions out of band.
- 12.2.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz ,RMS detector for AV value.

10.3 Test Setup

Same as 5.2.2.

10.4 Test Result

PASS.

Detailed information please see the following page.

Radiated Method:

GFSK

01 211			
	Band Edge Test	result	
EUT: Gimbal	M/N: G5		
Power: DC 3.7V from b	attery		
Test date: 2016-11-04	Test site: 3m Chamber	Tested by: Eric Huang	
Test mode: Tx Low			

Antenna polarity: Vertical

Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	44.14	27.62	3.92	34.97	40.71	74	33.29	PK
2390		27.62	3.92	34.97		54		AV
Antenna Polar	rity: Horizo	ntal						
2390	43.33	27.62	3.92	34.97	39.9	74	34.1	PK
2390		27.62	3.92	34.97		54		AV

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Band Edge Test result

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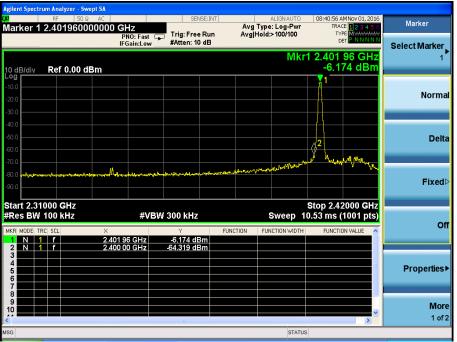
EUT: Gimbal		M/N: G5						
Power: DC 3	.7V from ba	attery						
Test date: 2016-11-04		Test site: 3m Chamber Tested by: Eric Huang						
Test mode: T	x High							
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	43.55	27.89	4	34.97	40.47	74	33.53	PK
2483.5						54		AV
Antenna Pola	arity: Horizo	ontal						
2483.5	43.7	27.89	4	34.97	40.62	74	33.38	PK
2483.5						54		AV

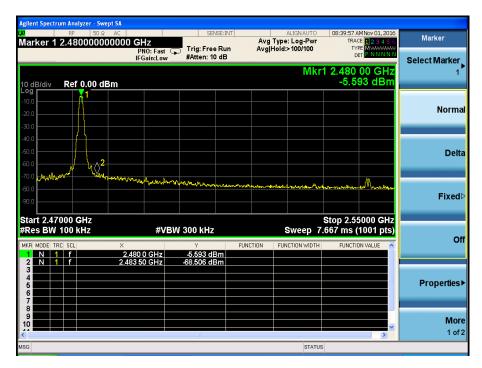
Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Conducted Method:







11 Antenna Requirement

11.1 Standard Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

11.2 Antenna Connected Construction

The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

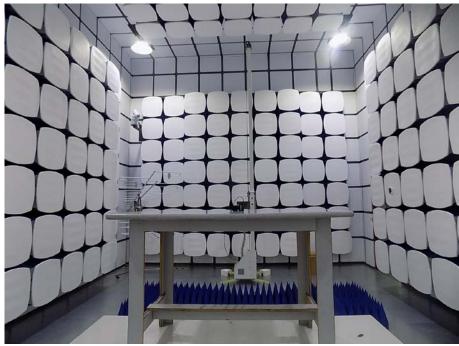
11.3 Result

The EUT antenna is Integrated Antenna. It comply with the standard requirement.

12 Test setup photo

12.1 Photos of Radiated emission





12.2 Photos of Conducted emission



12 Photographs of EUT







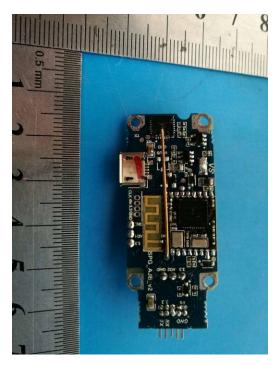


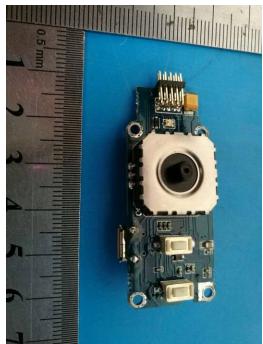




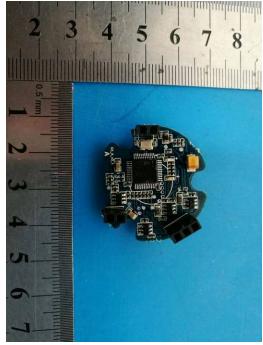


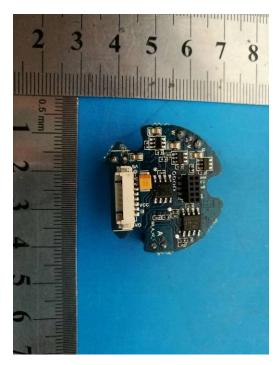






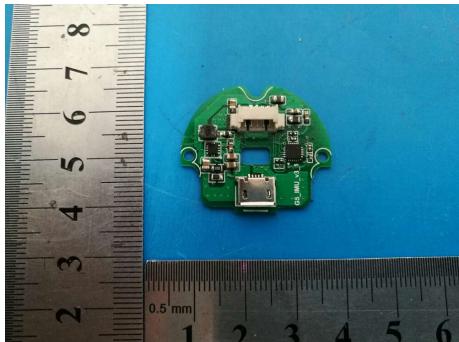


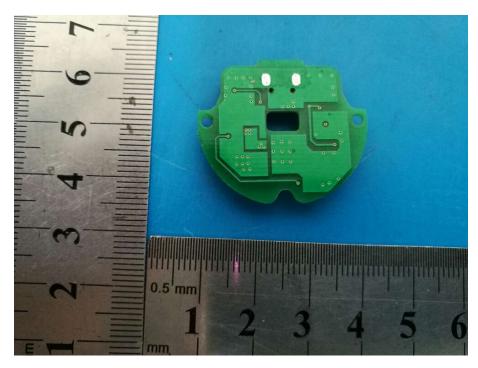














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