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FCC REPORT

Application No.: SZEM1108002934RF

Applicant: GUANGDONG SHANTOU CHENGHAI LINGTING YONGDA

PLASTIC FACTORY

Product Name: HELICOPTER SERIES

Operation Frequency: 27.145MHz

FCC ID: XJH20110872515

Standards: FCC PART 15, SUBPART C: 2010 Section 15.227

Date of Receipt: 2011-08-11

Date of Test: 2011-08-15 to 2011-08-16

Date of Issue: 2011-08-22

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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3 Test Summary

Test Item	Section in CFR 47	Result
Radiated Emission (25MHz to 1GHz)	Section 15.227	Pass
Occupied Bandwidth	Section 15.215	Pass

Remark: Pass: The EUT complies with the essential requirements in the standard.

Fail: The EUT does not comply with the essential requirements in the standard.



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4 General Information

4.1 Client Information

Applicant:	GUANGDONG SHANTOU CHENGHAI LINGTING YONGDA
	PLASTIC FACTORY
Address of Applicant:	NanQiao Outside, LinTing Industrial Park, Chenghua
	Shantou, Guangdong, 515800 China

4.2 General Description of E.U.T.

Product Name:	HELICOPTER SERIES
Model No.:	3319B 3319 3319A 3320 3310 3311 3312 3313 3315 3317 3363 3365 3369 3395 3396 3397 3398 3399 3387 3389 3376A 3376 3309 3318 3378A UJ301
	Only the item 3319B was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above items, only the different on color of appearance, packaging and model number.
Operation Frequency:	27.145MHz
Power supply:	9.0V DC (1.5V x 6 'AA' Size Batteries)

4.3 E.U.T. Environment and test modes

Operating Environment:	
Temperature:	25.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1010mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.5 Other Information Requested by the Customer

None.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, March 16, 2011

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.



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4.7 Test Instruments List

RE i	RE in Chamber									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)				
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2011-06-10	2012-06-10				
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2011-05-26	2012-05-26				
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A				
4	Coaxial cable	SGS	N/A	SEL0028	2011-05-29	2012-05-29				
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2010-11-09	2011-11-09				
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2010-11-09	2011-11-09				
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2011-05-26	2012-05-26				
8	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2010-11-09	2011-11-09				

RF c	RF conducted									
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date				
				No.	(yyyy-mm-dd)	(yyyy-mm-dd)				
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	2010-10-27	2011-10-27				
2	Coaxial cable	SGS	N/A	SEL0028	2011-05-29	2012-05-29				



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5 Test Result & Measurement Data

5.1 Antenna requirment

Standard requirement: FCC Part15 C Section 15.203

15.203 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, 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.

5.2 Radiated Emissions

Test Requirement: FCC Part15 C Section 15.227 Test Method: ANSI C63.10: 2009 Measurement Distance: Requirements: Carrier Power will not exceed 80dBuV/m at 3m (Average). Out of band emissions shall not exceed: 40.0 dBμV/m between 30MHz & 88MHz 43.5 dBμV/m between 88MHz & 216MHz 46.0 dBμV/m between 216MHz & 960MHz 54.0 dBμV/m between 960MHz & 1000MHz Detector: Between 25MHz to 30MHz RBW=9KHz VBW=30KHz 30MHz to 1000MHz RBW=100KHz VBW=30MHz Above 1000MHz RBW=1MHz VBW=3MHz Test Procedure: 1. The EUT is placed on a turntable, which is 0.8m above ground plane. 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance. 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. 6. Repeat above procedures until the measurements for all frequencies are complete. 7. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.						
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		·				
The diff does most the Foot art to a content to LEET requirements.	Test Result:	The unit does meet the FCC Part 15 C Section 15.227 requirements.				

27.145MHz Mode

Test Procedure: For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.10: 2009, section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.



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Intentional emission

Test Frequency	Peak (d	dBμV/m)	Limits	Margin (dB)	
(MHz)	Vertical	Horizontal	(dBµV/m)	Vertical	Horizontal
27.145	60.62	52.31	100.00	39.38	47.69

Test Frequency	Average	(dBµV/m)	Limits	Marg	in (dB)
(MHz)	Vertical	Horizontal	(dBµV/m)	Vertical	Horizontal
27.145	59.69	49.75	80.00	20.31	30.25

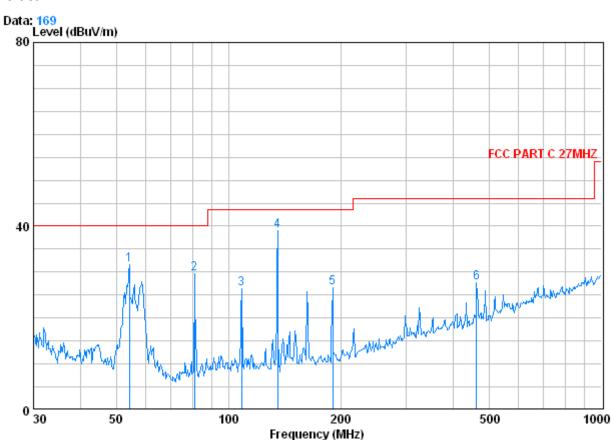


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Other emissions (QP)

Vertical



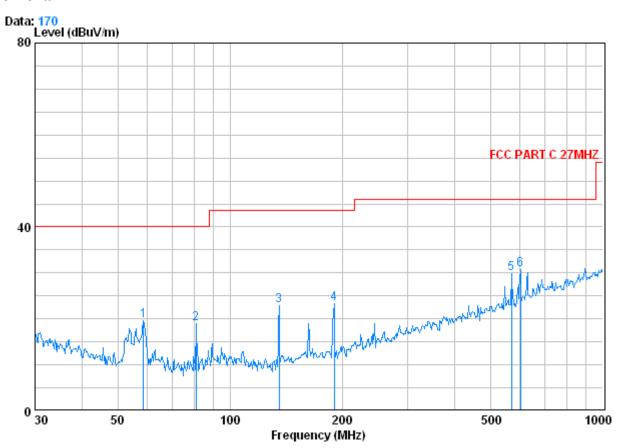
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
54.247	0.80	7.64	27.28	50.36	31.52	40.00	-8.48
81.096	1.10	7.82	27.23	47.88	29.57	40.00	-10.43
108.533	1.23	8.68	27.14	43.50	26.27	43.50	-17.23
135.420	1.29	7.92	26.98	56.79	39.02	43.50	-4.48
190.140	1.39	10.10	26.73	41.80	26.56	43.50	-16.94



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Horizontal



Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
58.616	0.80	7.36	27.27	38.64	19.53	40.00	-20.47
81.096	1.10	7.82	27.23	37.27	18.96	40.00	-21.04
135.420	1.29	7.92	26.98	40.65	22.88	43.50	-20.62
190.140	1.39	10.10	26.73	38.64	23.40	43.50	-20.10
568.702	2.67	19.05	27.59	35.81	29.94	46.00	-16.06

Remark:

According to 15.35 (b) When average radiated emission measurements are specified in the regulations, including emission measurements below 1000 MHz, there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules, e.g., see Section 15.255.



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5.3 Occupied Bandwidth	
Test Requirement:	FCC Part 15 C Section 15.215 (C)
Test Method:	ANSI C63.10: 2009
Frequency range:	Operation within the band 26.960 – 27.280 MHz
Requirements:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.
Method of measurement:	The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector. The vertical Scale is set to 10dB per division. The horizontal scale is set to 34KHz per division.
Test Result:	The unit does meet the FCC Part 15 C Section 15.215 requirements.

The graph as below: represents the emissions take for this device.

