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FCC REPORT

Application No. : SZEM1406003400RF **Applicant:** Heng Ke metal works.

Manufacturer/

Factory: Heng Ke metal works

Product Name: Tachometer for wireless shift light tube

Model No.(EUT): 67006

Trade Mark: PROFORM

FCC ID: ZCD67007BASE

Standards: 47 CFR Part 15, Subpart C (2013)

Date of Receipt: 2014-07-01

Date of Test: 2014-07-14 to 2014-07-22

Date of Issue: 2014-07-29

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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2 Version

Revision Record								
Version Chapter Date Modifier Remark								
00		2014-07-29	Original					

Authorized for issue by:		
Tested By	Owen Zhon	2014-07-22
	(Owen Zhou) /Project Engineer	Date
Prepared By	Sade Luo.	2014-07-29
	(Sade Luo) /Clerk	Date
Checked By	Emen-Li	2014-07-31
	(Emen Li) /Reviewer	Date



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3 Test Summary

Test Item Test Requirement		Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2009)	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2009)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2009)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2009)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2009)	PASS



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5 General Information

5.1 Client Information

Applicant:	Heng Ke metal works.	
Address of Applicant:	1 jiang bei lu, crossroads ShaNi, QingXi Dongguan	
Manufacturer:	Heng Ke metal works	
Address of Manufacturer:	1 jiang bei lu, crossroads ShaNi, QingXi Dongguan	
Factory:	Heng Ke metal works	
Address of Factory:	1 jiang bei lu, crossroads ShaNi, QingXi Dongguan	

5.2 General Description of EUT

Product Name:	Tachometer for wireless shift light tube
Model No.:	67006
Trade Mark :	PROFORM
Carrier Frequency:	2432.999908 MHz
Modulation Type:	MSK
Number of Channels:	1
Sample Type:	Fixed production
Test Power Grade:	Manufacturer declare
Test Software of EUT:	Manufacturer declare
Antenna Type:	Integral
Antenna Gain:	0dBi
Power Supply:	Battery: 12 V
Test Voltage:	DC 12V



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5.3 Test Environment and Mode

Operating Environment:	Operating Environment:					
Temperature: 23.0 °C						
Humidity:	52 % RH					
Atmospheric Pressure: 1005 mbar						
Test mode:						
Transmitting mode:	The EUT transmitted the continuous modulation test signal at the specific channel(s)					

5.4 Description of Support Units

The EUT has been tested independently.

5.5 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.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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5.6 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, Full-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, G-416, T-1153 and C-2383 respectively.

• 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 No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.





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5.10 Equipment List

RE in Chamber							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)		
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-06-10		
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2015-05-16		
3	EMI Test software	AUDIX	E3	SEL0050	N/A		
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-24		
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-24		
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-10-24		
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-16		
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24		
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-29		
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-29		
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-29		
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-29		
13	Band filter	Amindeon	82346	SEL0094	2015-05-16		
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-16		
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24		
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-24		
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-16		
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24		
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-06-04		



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			i age	. 9 01 22				
	RF connected test							
Item Test Equipment		Manufacturer Model No.		Inventory No.	Cal.Due date (yyyy-mm-dd)			
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24			
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2014-10-24			
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2014-10-24			
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-29			
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-29			
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-16			
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-05-16			
8	Band filter amideon		82346	SEL0094	2015-05-16			
9	POWER METER	R&S	NRVS	SEL0144	2014-10-24			
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-05-16			
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2014-10-24			

Note: The calibration interval is one year, all the instruments are valid.



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6 Test results and Measurement Data

6.1 Antenna Requirement

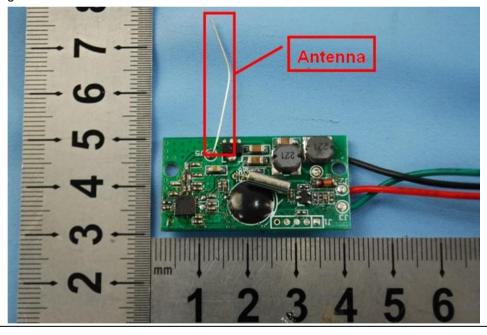
Standard requirement: 47 CFR Part 15C Section 15.203

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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.





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6.2 Spurious Emissions

6.2.1 Spurious Emissions

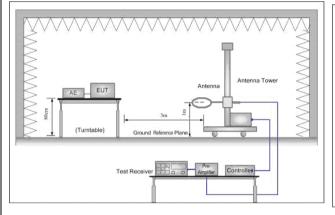
Test Requirement:	47 CFR Part 15C Sectio	n 15.249 and 15.2	09						
Test Method:	ANSI C63.10: 2009								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	0.009MHz-0.090MHz	: Peak	10kHz	30KHz	Peak	1			
	0.009MHz-0.090MHz	. Average	10kHz	30KHz	Average				
	0.090MHz-0.110MHz	. Quasi-peak	10kHz	30KHz	Quasi-peak				
	0.110MHz-0.490MHz	. Peak	10kHz	30KHz	Peak				
	0.110MHz-0.490MHz	. Average	10kHz	30KHz	Average				
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above 10112	Peak	1MHz	10Hz	Average				
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter	Limit) (dBuV/m	Remark	Measureme distance (m				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	30				
	30MHz-88MHz	100	40.	0 Quasi- peak	3				
	88MHz-216MHz	150	43.	5 Quasi- peak	3				
	216MHz-960MHz	200	200 46.0		3				
	960MHz-1GHz	500	54.	0 Quasi- peak	3				
	Above 1GHz	500	54.	0 Average	e 3				
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency is 20dB above the maximum permitted average emission limit applica equipment under test. This peak limit applies to the total peak emis radiated by the device.					the			
Limit:	Frequency	Limit (dBuV	/m @3m)	23m) Remark					
(Field strength of the	2400MHz-2483.5MH	94.0)	Average Val	lue				
fundamental signal)	24UUIVITIZ-2403.3IVITI	114.	0	Peak Valu	е				



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Test Setup:



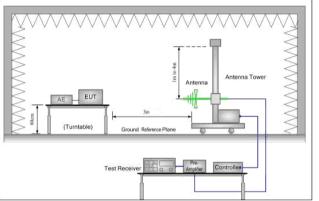


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

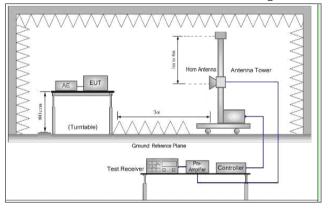


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning for



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	-9-				
	Transmitting mode, And found the X axis positioning which it is worse case. h. Repeat above procedures until all frequencies measured was complete.				
Instruments Used:	Refer to section 4.10 for details				
Exploratory Test Mode:	Transmitting mode				
Test Results:	Pass				

Measurement Data

6.2.1.1 Field Strength Of The Fundamental Signal

Frequency	Cable	Antenna	Preamp	Read	Level	Limit Line	Over	
(MHz)	Loss (dB)	Factor (dB/m)	Factor (dB)	Level (dBuV)	(dBuV/m)	(dBuV/m)	Limit (dB)	Polarization
	()	(==,)	(==/	(======			()	
2433	3	32.58	39.88	102.15	97.85	114	-16.15	Peak
2433	3	32.58	39.88	94.86	90.56	94	-3.44	Average



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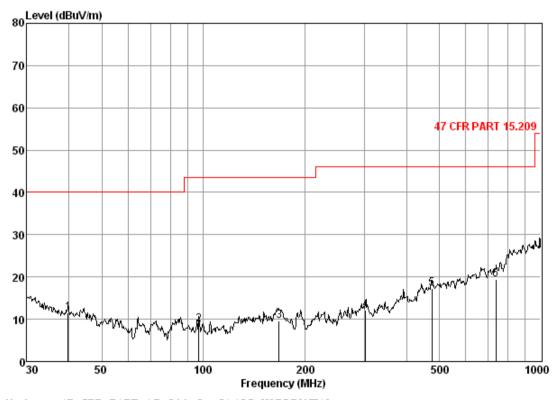
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6.2.1.2 Spurious Emissions

30MHz~1GHz	
Test mode:	Transmitting

QP value:

Horizontal:



Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL

Job No. : 3400RF Mode : TX mode

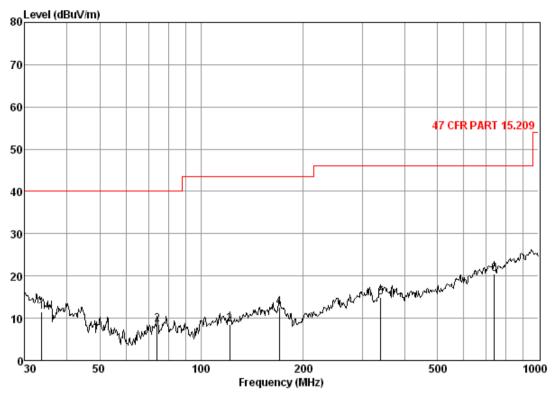
	Freq			Preamp Factor	Read Level		Limit Line	Over Limit
	MHz	d₿	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 3 4 5 6	39.71 97.11 167.82 302.48 475.50 737.07			27. 32 27. 20 26. 82 26. 42 27. 58 27. 37		9.54 12.11	43.50 43.50 46.00 46.00	-33.96 -33.89



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Vertical:



Condition: 47 CFR PART 15.209 3m 3142C VERTICAL

Job No. : 3400RF Mode : TX mode

	Freq			Preamp Factor			Limit Line	Over Limit
_	MHz	dB	dB/m	dB	dBuV	$\overline{\text{dBuV/m}}$	$\overline{\text{dBuV/m}}$	dB
1 2 3 4 5	33. 68 73. 88 121. 55 170. 19 340. 78 739. 66	0.60 0.92 1.26 1.35 2.03 3.03	15.00 4.58 7.77 9.00 10.50 17.80	27. 34 27. 24 27. 06 26. 82 26. 73 27. 37		11. 55 8. 48 8. 47 12. 49 15. 01 20. 47	40.00 43.50 43.50 46.00	-28. 45 -31. 52 -35. 03 -31. 01 -30. 99 -25. 53



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Above 1GHz	Above 1GHz											
Test mode: Trai		Tran	smitting	Test channel:		2432.999908 MHz		z Remark:	Remark:		Peak	
Frequency (MHz)	Lo	ble ss B)	Antenna Factor (dB/m)	Preamp Factor (dB)	Factor Leve		Level (dBuV/m)	Limit Line (dBuV/m)	Ov Lim (dE	nit	Polarization	
3709.691	3.	91	33.45	40.83	47.1	4	43.67	74	-30.	33	Vertical	
4866.000	4.	72	34.62	41.67	46.6	9	44.36	74	-29.	64	Vertical	
6428.771	5.	24	36.20	40.55	47.1	2	48.01	74	-25.	99	Vertical	
7299.000	5.	87	35.92	39.79	47.0	2	49.02	74	-24.	98	Vertical	
9732.000	5.	98	37.44	37.68	3 44.12		49.86	74	-24.	14	Vertical	
11457.210	6.	34	38.41	38.05	44.6	5	51.35	74	-22.	65	Vertical	
3634.910	3.	85	33.37	40.77	46.7	' 1	43.16	74	-30.	84	Horizontal	
4866.000	4.	72	34.62	41.67	50.2	2	47.89	74	-26.	11	Horizontal	
6094.137	5.	15	35.82	40.84	47.5	8	47.71	74	-26.	29	Horizontal	
7299.000	5.	87	35.92	39.79	49.4	.1	51.41	74	-22.	59	Horizontal	
9732.000	5.	98	37.44	37.68	45.4	1	51.15	74	-22.	85	Horizontal	
11842.690	6.	43	38.74	38.21	46.5	0	53.46	74	-20.	54	Horizontal	

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



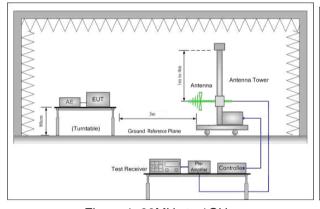
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6.3 Restricted bands around fundamental frequency

	47 CFR Part 15C Section 15.209 and 15.205 ANSI C63.10: 2009 Measurement Distance: 3m (Semi-Anechoic Chamber) 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 to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation. Frequency Limit (dBuV/m @3m) Remark									
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10: 2009	ANSI C63.10: 2009								
Test site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Limit(band edge):	harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209,									
	Frequency	Limit (dBuV/m @3m)	Remark							
	30MHz-88MHz	40.0	Quasi-peak Value							
	88MHz-216MHz	43.5	Quasi-peak Value							
	216MHz-960MHz	46.0	Quasi-peak Value							
	960MHz-1GHz	54.0	Quasi-peak Value							
	Above 1GHz	54.0	Average Value							
	Above IGHZ	74.0	Peak Value							
Test Setup:										

Test Setup:





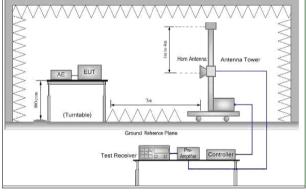


Figure 2. Above 1 GHz





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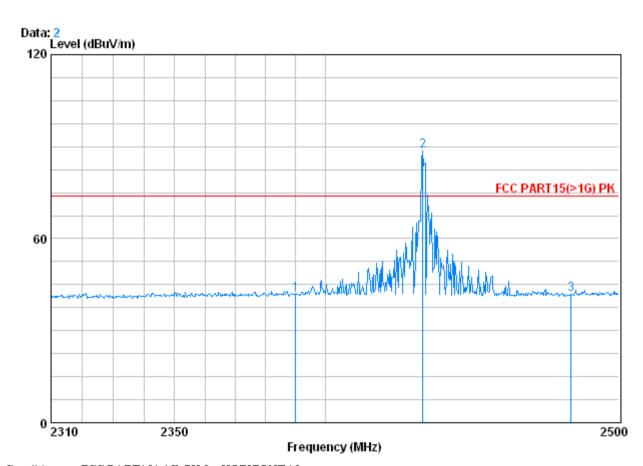
Test Procedure:	 a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case h. Repeat above procedures until all frequencies measured was complete. 					
Instruments Used:	Refer to section 4.10 for details					
Exploratory Test Mode:	Transmitting mode					
Test Results:	Pass					



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Horizontal:



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No: : 3400RF test mode : Bandedge

: Level=Read level+Cable loss+Antenna Fact

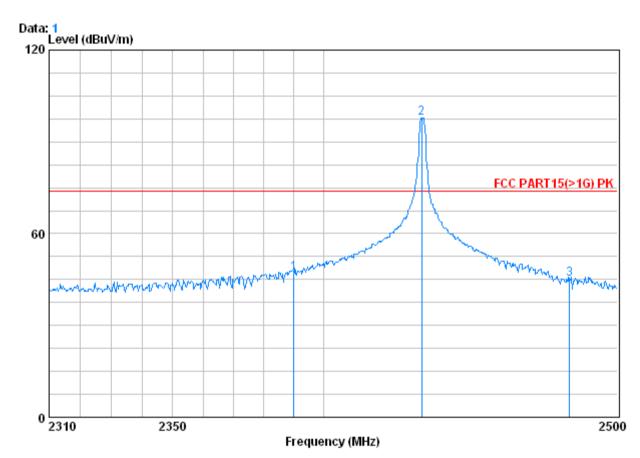
			Cablei	lntenna	Preamp	Read		Limit	Over	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0	2390.000	2.98	32.51	39.85	46.21	41.86	74.00	-32.14	Peak
2	0	2432.740	3.00	32.58	39.88	92.82	88.52	74.00	14.52	Peak
3	0	2483.500	3.03	32.67	39.92	46.05	41.83	74.00	-32.17	Peak



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Vertical:



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No: : 3400RF test mode : Bandedge

: Level=Read level+Cable loss+Antenna Fact

	. Do you recognity of the debt										
				Cablei	Antenna	Preamp	Read		Limit	Over	
			Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
			MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
									·		
1	<u>@</u>		2390.000	2.98	32.51	39.85	51.56	47.21	74.00	-26.79	Peak
	-										
2	0		2432.930	3.00	32.58	39.88	102.15	97.85	74.00	23.85	Peak
3	0		2483.500	3.03	32.67	39.92	49.37	45.15	74.00	-28.85	Peak

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

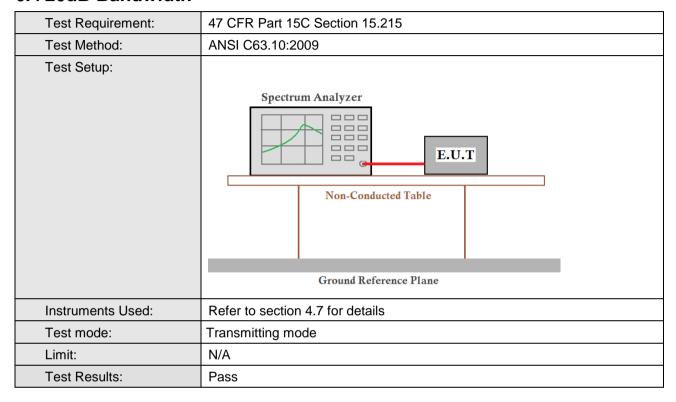
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



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6.4 20dB Bandwidth



Measurement Data

Test channel	20dB bandwidth (MHz)	Results		
2432.999908 MHz	0.882	Pass		



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Test plot as follows:

