Report No. : UL22020131209FCC118



# **FCC TEST REPORT**

**Product Name: Factory Lamp** 

Model Name : 1:SBD1105B-YQL120;

2:SBF6105B-YQL120; 3:SBF6110-YQL120

#### Prepared for:

Shanghai Senben Lighting Technology Incorporated Company Zone B, Block 2, No. 4800, Baoqian Highway, Jiading District, Shanghai City, China

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### Prepared by:

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Report Number : UL22020131209FCC118

**Date of Report** : 2013-12-20

**Date of Test** : 2013-12-09~2013-12-19

# Notes:

The test results only relate to these samples which have been tested. Partly using this report will not be admitted unless been allowed by Unilab. Unilab is only responsible for the complete report with the reported stamp of Unilab.

Report No.: UL22020131209FCC118



Applicant: Shanghai Senben Lighting Technology Incorporated Company.

Zone B, Block 2, No. 4800, Baoqian Highway, Jiading District, Shanghai

City, China.

**Manufacturer:** Shanghai Senben Lighting Technology Incorporated Company.

Zone B, Block 2, No. 4800, Baoqian Highway, Jiading District, Shanghai

City, China

**Product Name:** Factory Lamp

Brand Name: N/A

Model Name: 1:SBD1105B-YQL120;

2:SBF6105B-YQL120; 3:SBF6110-YQL120

Operating frequency: 0.22MHz-0.28MHz

**Model difference:** 1:SBD1105B-YQL120 and SBF6105B-YQL120 are identical. They are

marketed in different countries, so they own different modle name.

2: Appearance is the only difference between SBF6105B-YQL120 and

SBF6110-YQL120.

3:The model under test are SBF6105B-YQL120 and SBF6110-YQL120.

FCC ID: 2AA55HUNHE120

**EUT Voltage:** AC input: AC 120V/60Hz

**Date of Receipt:** 2013-12-09

**Date of Test** 2013-12-09~2013-12-19

**Test Standard:** FCC CFR Tile 47 Part 18 Subpart C

Test Result: Complied

Prepared by : (Technical Engineer: Flame Wang

(Technical Engineer: Flame Wang)

Reviewed by : (Senior Engineer: Forest Cao)

Approved by :

(Supervisor: Eva Wang)



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# 1. TECHNIACL SUMMARY

# 1.1 SUMMARY OF STANDARDS AND TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Test Item	FCC	Result
Conducted disturbance	FCC 18.307(c)	Р
Radiated disturbance	FCC 18.305(c)	Р
Magnetic Field Emission	FCC 18.305(b)	Р

Note: P means pass, F means failure, N/A means not applicable

### 1.2 TEST UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Value (dB)
Conducted disturbance	3.4
Radiated disturbance	4.2

### 1.3 TEST EQUIPMENT LIST

Shielding Room No. 3 - Conducted disturbance Test								
Equipment	Equipment Manufacturer		Serial No.	Due Date				
Receiver	Agilent	N9038A	MY51210142	2014/09/27				
LISN	R&S	ENV216	100069	2014/06/23				

3m Semi-anechoic Chamber - Radiated disturbance Test								
Equipment Manufacturer Model Serial No.								
3m Chamber & Accessory Equipment	ETS-LINDGREN	FACT-3	CT-0000336	2014/11/26				
Receiver	Agilent	N9038A	MY51210142	2014/09/27				
Biconilog Antenna	SCHWARZBECK	VULB 9160	3316	2014/10/19				
Loop Antenna	Schwarzbeck	FMZB1519	1519-020	2014/03/27				

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and has been calibrated by accredited calibration laboratories.

#### 1.4 SUPPORT EQUIPMENT

Equipment	Manufacturer	Model	Serial No.	Due Date
N/A	N/A	N/A	N/A	N/A

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#### 1.5 TEST FACILITY

The site and apparatus are constructed in conformance with the requirements of ANSI C63.4: 2009, CISPR 16-1-1 and other equivalent standards. The laboratory is compliance with the requirements of the ISO/IEC/EN17025. FCC Registration Number is 714465.

#### 1.6 TEST SETUP CONFIGURATION

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

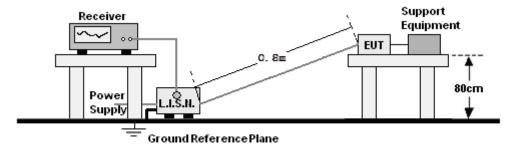
### Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. All the tests were carried out with the EUT in normal operation. Which was shown in this test report is the worst test mode.

# 2. CONDUCTED DISTURBANCE

#### 2.1 TEST SETUP

### For mains port:



### 2.2 LIMITS

**Limits for Class B digital devices** 

Frequency range	Limits dB(μV)					
(MHz)	Quasi-peak	Average				
0,45 to 2.51	48	1				
2.51 to 3	70	1				
3 to 30	48	1				

**NOTE:** The lower limit shall apply at the transition frequencies.

### 2.3 TEST PROCEDURE

### For mains port:

- a. The EUT and support equipment were placed on a nonconductive table 0.8m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane. The EUT connected to the main through Line Impedance Stability Network (L.I.S.N) to provide a 50  $\Omega$ /50uH coupling impedance for the measuring equipment. The support equipment is also connected to the main power through a LISN that provides a 50  $\Omega$ /50uH coupling impedance with 50  $\Omega$  terminations. Both sides of AC line (Line & Neutral) were checked to find out the maximum conducted emission.
- b. The RBW of the receiver was set at 9 kHz. The frequency range from 150 kHz to 30 MHz was checked. Run the receiver's pre-scan to record the maximum disturbance generated from EUT in all power lines in the full band.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP and record.

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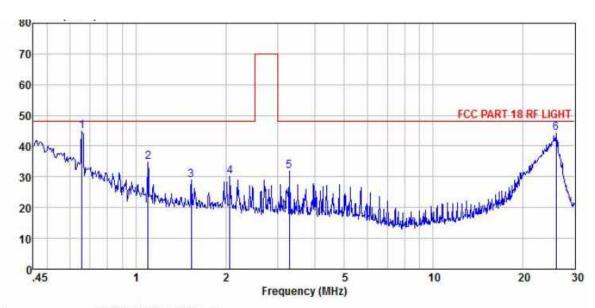


## 2.4 TEST RESULT

# For mains port:

Model Name: SBF6105B-YQL120

Test mode: Power on



Site : SHIELDED ROOM 3

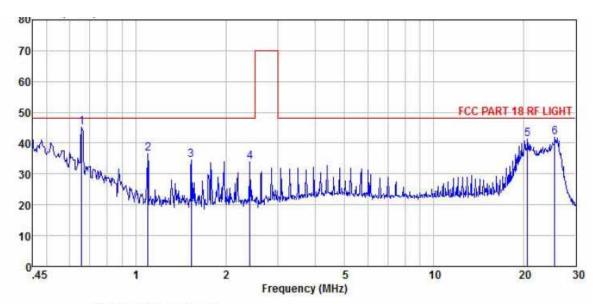
Condition : FCC PART 18 RF LIGHT ENV216(L)-20120730 LINE

EUT : Factory Lamp Model Name : SBF6105B-YQL120

Temp/Humi : 21°C/53% Power Rating: AC 120V/60Hz Mode : POWER ON

Memo

	2		LISN				Limit		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
25	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1 pp	0.66	34.44	10.42	0.12	0.00	44.98	48.00	-3.02	QP
2 pk	1.10	24.09	10.52	0.14	0.00	34.75	48.00	-13.25	Peak
3	1.53	18.28	10.52	0.15	0.00	28.95	48.00	-19.05	Peak
4	2.07	19.40	10.52	0.15	0.00	30.07	48.00	-17.93	Peak
4 5 6	3.28	21.12	10.52	0.15	0.00	31.79	48.00	-16.21	Peak
6	25.90	33.64	10.47	0.12	0.00	44.23	48.00	-3.77	QP



Site : SHIELDED ROOM 3

Condition : FCC PART 18 RF LIGHT ENV216(N)-20120730 NEUTRAL

EUT : Factory Lamp Model Name : SBF6105B-YQL120

Temp/Humi : 21°C/53% Power Rating: AC 120V/60Hz Mode : POWER ON

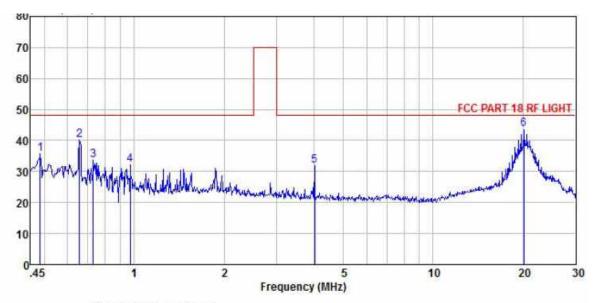
	Freq	Read Level			Preamp	Level	Line	- 1	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	——dB	-
1 pp	0.66	34.82	10.32	0.12	0.00	45.26	48.00	-2.74	QP
2	1.10	26.06	10.31	0.14	0.00	36.51	48.00	-11.49	Peak
3	1.53	24.08	10.31	0.15	0.00	34.54	48.00	-13.46	Peak
2 3 4 5	2.41	23.48	10.32	0.15	0.00	33.95	48.00	-14.05	Peak
5	20.64	30.73	10.40	0.10	0.00	41.23	48.00	-6.77	Peak
6 pk	25.47	31.27	10.50	0.12	0.00	41.89	48.00	-6.11	Peak

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Model Name: SBF6110-YQL120

Test mode: Power on



Site : SHIELDED ROOM 3

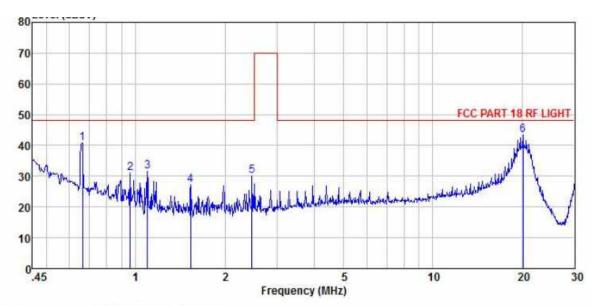
Condition : FCC PART 18 RF LIGHT ENV216(L)-20120730 LINE

EUT : Factory Lamp Model Name : SBF6110-YQL120

Temp/Humi : 21°C/53% Power Rating: AC 120V/60Hz Mode : POWER ON

_	17								
	Freq								Remark
-	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	-
	0.49	24.91	10.57	0.10	0.00	35.58	48.00	-12.42	Peak
pk	0.66	29.62	10.42	0.12	0.00	40.16	48.00	-7.84	Peak
	0.73	23.05	10.40	0.12	0.00	33.57	48.00	-14.43	Peak
	0.97	21.47	10.51	0.14	0.00	32.12	48.00	-15.88	Peak
	4.01	21.27	10.52	0.14	0.00	31.93	48.00	-16.07	Peak
pp	20.13	32.97	10.53	0.10	0.00	43.60	48.00	-4.40	QP
	pk	Preq MHz 0.49 pk 0.66 0.73 0.97 4.01	Read Freq Level  MHz dBuV  0.49 24.91  pk 0.66 29.62 0.73 23.05 0.97 21.47 4.01 21.27	Read LISN Freq Level Factor  MHz dBuV dB  0.49 24.91 10.57  pk 0.66 29.62 10.42 0.73 23.05 10.40 0.97 21.47 10.51 4.01 21.27 10.52	Read LISN Cable Freq Level Factor Loss  MHz dBuV dB dB  0.49 24.91 10.57 0.10  pk 0.66 29.62 10.42 0.12 0.73 23.05 10.40 0.12 0.97 21.47 10.51 0.14 4.01 21.27 10.52 0.14	Read LISN Cable Preamp Freq Level Factor Loss Factor  MHz dBuV dB dB dB  0.49 24.91 10.57 0.10 0.00  pk 0.66 29.62 10.42 0.12 0.00 0.73 23.05 10.40 0.12 0.00 0.97 21.47 10.51 0.14 0.00 4.01 21.27 10.52 0.14 0.00	Read LISN Cable Preamp Freq Level Factor Loss Factor Level  MHz dBuV dB dB dB dB dBuV  0.49 24.91 10.57 0.10 0.00 35.58 pk 0.66 29.62 10.42 0.12 0.00 40.16 0.73 23.05 10.40 0.12 0.00 33.57 0.97 21.47 10.51 0.14 0.00 32.12 4.01 21.27 10.52 0.14 0.00 31.93	Read LISN Cable Preamp Limit Freq Level Factor Loss Factor Level Line  MHz dBuV dB dB dB dB dBuV dBuV  0.49 24.91 10.57 0.10 0.00 35.58 48.00  pk 0.66 29.62 10.42 0.12 0.00 40.16 48.00 0.73 23.05 10.40 0.12 0.00 33.57 48.00 0.97 21.47 10.51 0.14 0.00 32.12 48.00 4.01 21.27 10.52 0.14 0.00 31.93 48.00	Read LISN Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit  MHz dBuV dB dB dB dBuV dBuV dB  0.49 24.91 10.57 0.10 0.00 35.58 48.00 -12.42  pk 0.66 29.62 10.42 0.12 0.00 40.16 48.00 -7.84  0.73 23.05 10.40 0.12 0.00 33.57 48.00 -14.43  0.97 21.47 10.51 0.14 0.00 32.12 48.00 -15.88  4.01 21.27 10.52 0.14 0.00 31.93 48.00 -16.07





Site : SHIELDED ROOM 3

Condition : FCC PART 18 RF LIGHT ENV216(N)-20120730 NEUTRAL

EUT : Factory Lamp Model Name : SBF6110-YQL120

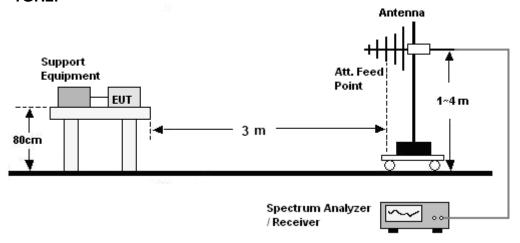
Temp/Humi : 21°C/53% Power Rating: AC 120V/60Hz Mode : POWER ON

Heliio									
	Freq	Read Level	LISN		Preamp Factor				Remark
-	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	-
1 pk	0.66	30.23	10.32	0.12	0.00	40.67	48.00	-7.33	Peak
2	0.96	20.69	10.31	0.14	0.00	31.14	48.00	-16.86	Peak
	1.10	21.04	10.31	0.14	0.00	31.49	48.00	-16.51	Peak
4 5	1.53	16.58	10.31	0.15	0.00	27.04	48.00	-20.96	Peak
5	2.47	19.61	10.32	0.15	0.00	30.08	48.00	-17.92	Peak
6 pp	20.13	32.99	10.38	0.10	0.00	43.47	48.00	-4.53	QP

# 3. RADIATED DISTURBANCE

### 3.1 TEST SETUP

30MHz ~ 1GHz:



### 3.2 LIMITS

**Limits for Class B digital devices** 

Frequency (MHz)	limits at 3m dB(μV/m)
30-88	40.0
88-216	43.5
216-960	46.0

**NOTE:** 1. The lower limit shall apply at the transition frequency.

- 2. The limits shown above are based on measuring equipment employing a CISPR quasi-peak detector function for frequencies below or equal to 1000MHz.
- 3. The limits shown above are based on measuring equipment employing an average detector function for frequencies above 1000MHz.

### 3.3 TEST PROCEDURE

#### 30MHz ~ 1GHz:

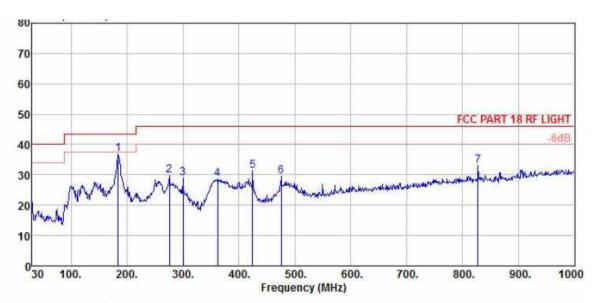
- a. The EUT and support equipment were placed on the non-conductive turntable 0.8m above the horizontal metal ground plane at a chamber. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna) was used as receiving antenna.
- b. The frequency range from 30MHz to 1GHz was checked. The RBW of the receiver was set at 120kHz. Set the receiver in Peak detector, Max Hold mode. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where EUT radiated the maximum emission, then set the test frequency receiver to QP Detector and record the maximum value.

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## 3.4 TEST RESULT

Model Name: SBF6105B-YQL120

Test mode: Power on



Site : chamber

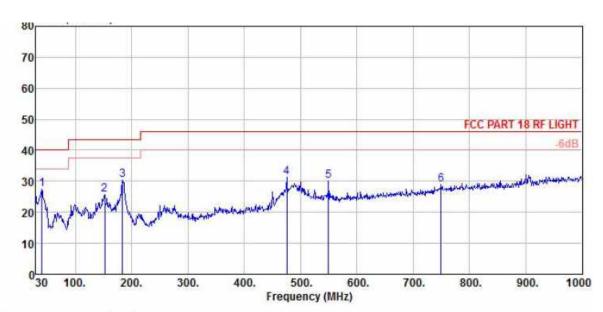
Condition : FCC PART 18 RF LIGHT 3m VULB9160 HORIZONTAL

EUT : Factory Lamp Model Name : SBF6105B-YQL120

Temp/Humi : 21℃/53% Power Rating: AC 120V/60Hz Mode : POWER ON

		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
75	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	184.23	23.15	11.77	1.88	0.00	36.80	43.50	-6.70	Peak
2	275.41	14.80	12.67	2.21	0.00	29.68	46.00	-16.32	Peak
3	299.66	13.27	13.19	2.53	0.00	28.99	46.00	-17.01	Peak
4	361.74	11.38	14.44	2.67	0.00	28.49	46.00	-17.51	Peak
5	424.79	12.62	15.80	2.81	0.00	31.23	46.00	-14.77	Peak
4 5 6 7	475.23	9.64	16.81	2.97	0.00	29.42	46.00	-16.58	Peak
7	827.34	7.31	21.94	3.90	0.00	33.15	46.00	-12.85	Peak

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Site : chamber

Condition : FCC PART 18 RF LIGHT 3m VULB9160 VERTICAL

EUT : Factory Lamp Model Name : SBF6105B-YQL120

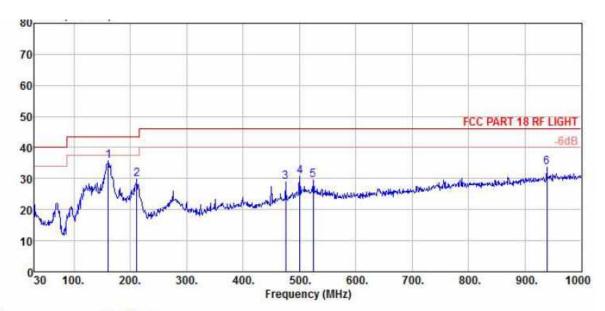
Temp/Humi : 21°C/53% Power Rating: AC 120V/60Hz Mode : POWER ON

		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
=	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	40.67	13.85	12.71	0.83	0.00	27.39	40.00	-12.61	Peak
2	152.22	10.21	13.90	1.65	0.00	25.76	43.50	-17.74	Peak
3	184.23	16.79	11.77	1.88	0.00	30.44	43.50	-13.06	Peak
4	475.23	11.38	16.81	2.97	0.00	31.16	46.00	-14.84	Peak
5	549.92	9.00	17.92	3.17	0.00	30.09	46.00	-15.91	Peak
6	749.74	3.82	21.35	3.80	0.00	28.97	46.00	-17.03	Peak



Model Name: SBF6110-YQL120

Test mode: Power on



Site : chamber

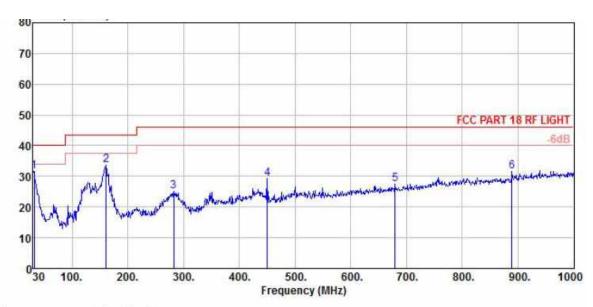
Condition : FCC PART 18 RF LIGHT 3m VULB9160 HORIZONTAL

EUT : Factory Lamp Model Name : SBF6110-YQL120

Temp/Humi : 21°C/53% Power Rating: AC 120V/60Hz Mode : POWER ON

		ReadA		Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	-
1 pp	160.95	20.25	13.77	1.69	0.00	35.71	43.50	-7.79	Peak
2	211.39	17.31	10.57	1.96	0.00	29.84	43.50	-13.66	Peak
3	475.23	9.07	16.81	2.97	0.00	28.85	46.00	-17.15	Peak
4	500.45	10.65	17.06	3.03	0.00	30.74	46.00	-15.26	Peak
5	524.70	9.02	17.40	3.13	0.00	29.55	46.00	-16.45	Peak
6	938.89	6.22	23.23	4.13	0.00	33.58	46.00	-12.42	Peak

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Site : chamber

Condition : FCC PART 18 RF LIGHT 3m VULB9160 VERTICAL

EUT : Factory Lamp Model Name : SBF6110-YQL120

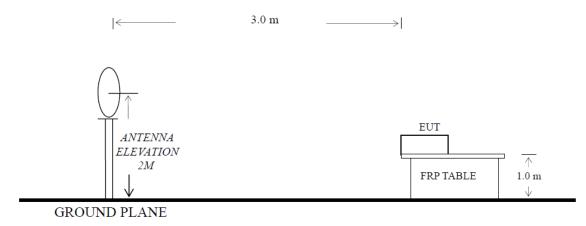
Temp/Humi : 21℃/53% Power Rating: AC 120V/60Hz Mode : POWER ON

		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
2.	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	31.94	18.59	12.22	0.70	0.00	31.51	40.00	-8.49	Peak
2	160.95	18.30	13.77	1.69	0.00	33.76	43.50	-9.74	Peak
3	282.20	10.08	12.85	2.21	0.00	25.14	46.00	-20.86	Peak
4	450.01	9.88	16.36	2.89	0.00	29.13	46.00	-16.87	Peak
5	679.90	3.87	19.89	3.57	0.00	27.33	46.00	-18.67	Peak
6	889.42	5.09	22.38	4.01	0.00	31.48	46.00	-14.52	Peak

# 4. MAGNETIC FIELD EMISSION

#### 4.1 TEST SETUP

30MHz ~ 1GHz:



#### 4.2 LIMITS

Frequency (MHz)	limits at 3m dB(μV/m)				
0.009-30	63.5				

#### 4.3 TEST PROCEDURE

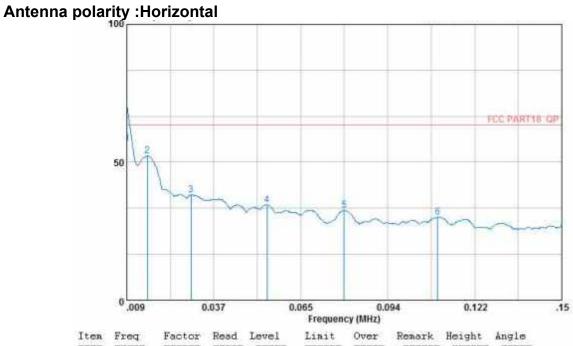
- a. The EUT and support equipment were placed on the non-conductive turntable 1m above the horizontal metal ground plane at a chamber. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna shall be set at height 2m above the floor.
- b. The frequency range from 0.009MHz to 30MHz was checked. The bandwidth setting on the test receiver is 200Hz from 9kHz to 150kHz and 9kHz from 150kHz to 30MHz.. Set the receiver in Peak detector, Max Hold mode. Record the maximum field strength of all the pre-scan process in the full band in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the degree where EUT radiated the maximum emission, then set the test frequency receiver to QP Detector and record the maximum value.

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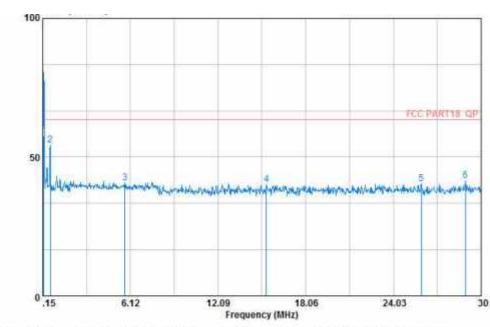
# 4.4 TEST RESULT

Model Name: SBF6105B-YQL120

Test mode: Power on

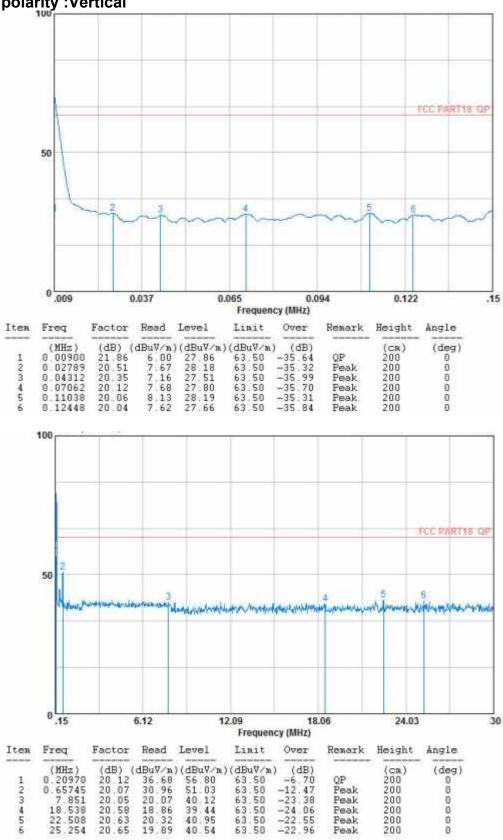


Item	Freq	Factor	Read	Level	Linit	Over	Remark	Height	Angle
-	(MHz)	(dB)	(dBuV/n)	(dBuV/m	)(dBuV/m)	(dB)		(OR)	(deg)
1	8.00900	21.86	34.99	56.85	63.50	-6.65	QP	200	Ð
2	0.01563	20.26	32.13	52.39	63.50	-11.11	Peak	200	0
1 2 3	0.02987	20.47	17.76	38.23	63.50	-25.27	Peak.	200	0
4	0.05440	20.16	14.44	34.60	63.50	-28.90	Peak	200	0
5	0.07950	20.06	12.44	32.50	63.50	-31.00	Peak	200	0
6	0.10982	20.06	10.01	30.07	63.50	-33.43	Peak	200	9



Freq	Factor	Read	Level	Linit	Over	Remark	Height	Angle
(MHz)	(dB) (	dBuV/n	(dBuV/n	)(dBuV/m)	(dB)		(cn)	(deg)
8.20978	20.12	37.48	57.60	63.50	-5.90	OP	200	0
0.65745	20.07	34.12	54.19	63.50	-9.31	Peak	200	0
5.732	19.93	20.81	40.74	63.50	-22.76	Peak	200	0
15.374	20.39	19.80	40.19	63.50	-23.31	Peak	200	0
25.940	20.65	19.72	40.37	63.50	-23.13	Peak	200	8
28.925	20.70	20.75	41.45	63.50	-22.05	Peak	200	0
	(MHz) 0.20970 0.65745 5.732 15.374 25.940	(MHz) (dB) 0.20970 20.12 0.65745 20.07 5.732 19.93 15.374 20.39 25.940 20.65	(MHz) (dB) (dBuV/n 0.20970 20 12 37 48 0.65745 20 07 34 12 5.732 19 93 20 81 15.374 20 39 19 80 25.940 20 65 19 72	(MHz) (dB) (dBuV/n)(dBuV/n 8,20970 20.12 37 48 57.60 8,65745 20.07 34.12 54.19 5,732 19.93 20.81 40.74 15.374 20.39 19.80 40.19 25.940 20.65 19.72 40.37	(MHz) (dB) (dBuV/m)(dBuV/m)(dBuV/m) 0.20970 20.12 37 48 57 60 63 50 0.65745 20.07 34 12 54 19 63 50 5.732 19.93 20.81 40.74 63 50 15.374 20.39 19.80 40.19 63 50 25.940 20.65 19.72 40.37 63.50	(MHz) (dB) (dBuV/m)(dBuV/m)(dBuV/m) (dB) 0.20970 20.12 37.48 57.60 63.50 -5.90 0.65745 20.07 34.12 54.19 63.50 -9.31 5.732 19.93 20.81 40.74 63.50 -22.76 15.374 20.39 19.80 40.19 63.50 -23.31 25.940 20.65 19.72 40.37 63.50 -23.13	(MHz) (dB) (dBuV/m)(dBuV/m)(dBuV/m) (dB) 0.20970 20.12 37 48 57.60 63.50 -5.90 QP 0.65745 20.07 34.12 54.19 63.50 -9.31 Peak 5.732 19.93 20.81 40.74 63.50 -22.76 Peak 15.374 20.39 19.80 40.19 63.50 -23.31 Peak 25.940 20.65 19.72 40.37 63.50 -23.13 Peak	(MHz) (dB) (dBuV/m)(dBuV/m)(dBuV/m) (dB) (cm) 0.20970 20 12 37 48 57.60 63.50 -5.90 QP 200 0.65745 20.07 34.12 54.19 63.50 -9.31 Peak 200 5.732 19.93 20.81 40.74 63.50 -22.76 Peak 200 15.374 20.39 19.80 40.19 63.50 -23.31 Peak 200 25.940 20.65 19.72 40.37 63.50 -23.13 Peak 200

Antenna polarity: Vertical



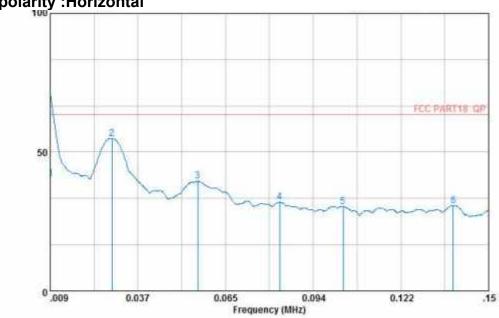
Peak

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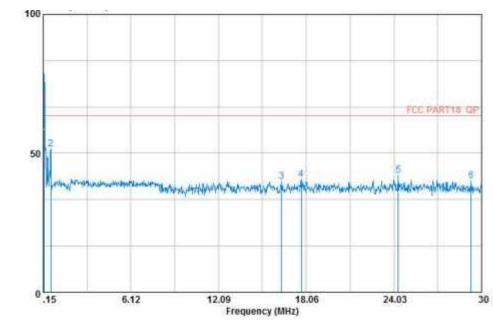
SBF6110-YQL120 Model Name:

Test mode: Power on

Antenna polarity :Horizontal

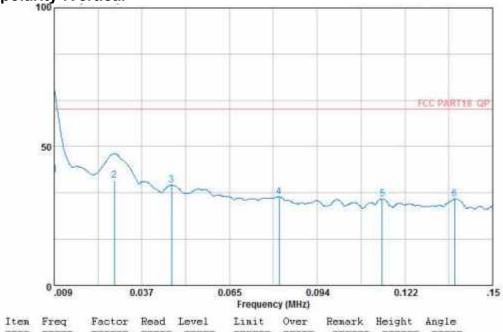


Iten	Freq	Factor	Read	Level	Limit	Over	Remark	Height	Angle
	(MHz)	(dB)	(dBuV/n	(dBuV/m)	(dBuV/m)	(dB)		(ca)	(deg)
1	0.00900	21.86	18.50	40.36	63.50	-23.14	OP	200	0
2	0.02888	20.48	34.48	54.96	63.50	-8.54	Peak	200	.0
3	0.05638	20.12	19.34	39.46	63.50	-24.04	Peak	200	0
4	0.08274	20.06	11 88	31.94	63.50	-31.56	Peak	200	0
5	0.10319	20.06	10.40	30.46	63.50	-33.04	Peak	200	0
6	0.13858	20.02	10.76	30.78	63.50	-32.72	Peak	200	Ð

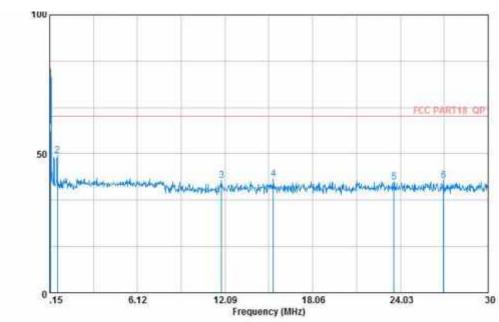


Item	Freq	Factor	Read	Level	Linit	Over	Remark	Height	Angle
-	(MHz)	(dB)	(dBuV/n	(dBuV/n	(dBuV/m)	(dB)		(ca)	(deg)
1	8.20978	20.12	38.28	58.40	63.50	-5.10	QP	200	B
2	0.65745	20.07	31.52	51.59	63.50	-11.91	Peak	200	D
3	16 388	20.42	19.54	39.96	63.50	-23.54	Peak	200	0
4	17.732	20.55	20.15	40.70	63.50	-22.80	Peak	200	0
5	24.329	20.65	21.29	41.94	63.50	-21.56	Peak	200	B
6	29.284	28.70	19.53	40.23	63.50	-23.27	Peak	200	0

Antenna polarity :Vertical



Item	Freq	Factor	Read	Level	Limit	Over	Remark	Height	Angle
	(MHz)	(dB)	(dBuV/n)	(dBuV/n	(dBuV/m)			(cm)	(deg)
1	0.00900	21.86	17.90	39.76	63.50	-23.74	QP	200	0
2	0.02832	20.49	17.41	37.90	63.50	-25.60	QP	200	B
3	0.04679	20.33	15.80	36.13	63.50	-27.37	Peak	200	0
4	0.08133	20.06	11.85	31.91	63.50	-31.59	Peak	200	0
5	0.11447	20 04	11.11	31 15	63.50	-32.35	Peak	200	0
6	0.13773	20.03			63.50	-32.35	Peak	200	B



Iten	Freq	Factor	Read	Level	Limit	Over	Remark	Height	Angle
	CAPTE A	4 1400				Carrie		7	4.5
	(MHz)	(dB)	(dBuy/n	)(dBuV/n)	(dBuy/m)	(dB)		(CR)	(deg)
1	8.20978	20.12	38.08	58.28	63.50	-5.30	QP	200	0
2	8.65745	20.07	29.12	49 19	63.50	-14.31	Peak	200	9
3	11.851	20.21	20.23	40.44	63.50	-23.06	Peak	200	0
4	15.374	20.39	20.57	40.96	63.50	-22.54	Peak	200	0
5	23.582	20.64	19.26	39.90	63.50	-23.60	Peak	200	D
6	26.955	20.65	19.73	40.38	63.58	-23.12	Peak	200	8

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# APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Please refer to the file named "2AA55HUNHE120\_Setup Photos".

# APPENDIX 2 PHOTOGRAPHS OF EUT

Please refer to the two files named "2AA55HUNHE120\_External Photos" and "2AA55HUNHE120\_Internal Photos".

----End of the report----