



<b>Prüfbericht-Nr.:</b> <i>Test report No.:</i>	<b>50083881 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>164091918</b>	<b>Seite 1 von 24</b> <i>Page 1 of 24</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client reference No.:</i>	<b>N/A</b>	<b>Auftragsdatum:</b> <i>Order date.:</i>	<b>27.04.2017</b>		
<b>Auftraggeber:</b> <i>Client:</i>	<b>Leedarson Lighting Co., Ltd.</b> Leedarson Industrial Park, Xingtai Industrial Zone, Changtai, Zhangzhou, Fujian 363900 P.R. China				
<b>Prüfgegenstand:</b> <i>Test item:</i>	<b>5.8G Motion &amp; Photon Integrated LED Lamp</b>				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	<b>6Zy-A806ST-Q1M ( y may be A~Z for different enclosure appearance design )</b>				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	<b>FCC approval</b>				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart C Section 15.107 CFR47 FCC Part 15: Subpart C Section 15.109 FCC KDB Publication 447498 v06				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	<b>02.05.2017</b>				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	<b>A000537527-001</b>				
	<b>A000537527-002</b>				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	<b>17.05.2017 - 23.05.2017</b>				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	<b>Accurate Technology Co., Ltd.</b> Shenzhen Academy of Metrology and Quality Inspection				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	<b>TÜV Rheinland (Shenzhen)</b> Co., Ltd.				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>				
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>			
					
07.06.2017 Alex Lan / Project Engineer		07.06.2017 Owen Tian / Technical Certifier			
<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b> For model difference information refer to clause 3.1.					
FCC ID: 2AB2Q6ZY-A806ST-Q1M					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>			<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged:</i>		
<p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft  P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet  Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor  P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested</p>					
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>  <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>					

V04

## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS**

*RESULT: Pass*

**5.1.3 BANDWIDTH**

*RESULT: Pass*

**5.1.4 RADIATED SPURIOUS EMISSIONS OUTSIDE BAND**

*RESULT: Pass*

**5.1.5 CONDUCTED EMISSION**

*RESULT: Pass*

**5.1.6 RADIATED EMISSION**

*RESULT: Pass*

**6.1.1 ELECTROMAGNETIC FIELDS**

*RESULT: Pass*

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# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:  
Appendix A: Test Results

# 2 Test Sites

## 2.1 Test Facilities

**Accurate Technology Co., Ltd.**

F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, P.R. China

**Shenzhen Academy of Metrology and Quality Inspection**

NETC Building, No. 4 Tongfa Rd., Xili, Nanshan, Shenzhen, China

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

<b>Radio Spectrum Test (ATC)</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
Spectrum Analyzer	R&S	FSV40	101495	2018-01-06
<b>Radiated Emission &amp; Spurious Emission (ATC)</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
Spectrum Analyzer	R&S	FSV40	101495	2018-01-06
Test Receiver	R&S	ESCS30	100307	2018-01-06
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2018-01-09
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2018-01-09
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2018-01-09
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2018-01-06
Pre-Amplifier	R&S	CBLU11835 40-01	3791	2018-01-06
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2018-01-06
RF Coaxial Cable	SUHNER	N-3m	No.8	2018-01-06
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2018-01-06
RF Coaxial Cable	SUHNER	N-6m	No.10	2018-01-06
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2018-01-06
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	2018-01-06
<b>Conducted Emission (ATC)</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
Test Receiver	Rohde & Schwarz	ESCS30	100307	2018-01-06
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2018-01-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2018-01-06
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2018-01-06
Voltage Probe	Schwarzbeck	TK9416	N/A	2018-01-09
RF Current Probe	Rohde & Schwarz	EZ-17	100048	2018-01-09
8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	2018-01-06
RF Coaxial Cable	Suhner	N-2m	No.2	2018-01-06

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RF Coaxial Cable	Suhner	N-2m	No.3	2018-01-06
RF Coaxial Cable	Suhner	N-2m	No.14	2018-01-06
<b>Spurious Emissions (SMQ) (for 26.5 - 40GHz)</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Until</b>
EMI Receiver	Rohde & Schwarz	ESCI3	SB9058/05	2018-05-01
EMI Receiver	Rohde & Schwarz	ESU40	SB8501/09	2018-05-13
Horn Antenna	Rohde & Schwarz	3160-10	SB8501/12	2018-05-13

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Item		Extended Uncertainty
Radiated Emission (9kHz-30MHz)	Field strength (dB $\mu$ V/m)	U=3.08dB, k=2, $\sigma$ =95%
Radiated Emission (30-1000MHz)	Field strength (dB $\mu$ V/m)	U=4.42dB, k=2, $\sigma$ =95%
Radiated Emission (above 1000MHz)	Field strength (dB $\mu$ V/m)	U=4.06dB, k=2, $\sigma$ =95%
Radio Spectrum		$\pm 0.60$ dB
Ambient Temperature		25 °C
Relative Humidity		56 %
Atmospheric Pressure		101 kPa

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The Accurate Technology Co., Ltd. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3 General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a microwave sensor LED lamp, and it operates at 5.8GHz ISM frequency band.

All models are identical in function, circuit design and components employed except different appearance of enclosure.

For details refer to the User Manual, Technical Description and Circuit Diagram.

#### 3.2 Ratings and System Details

Table 2: Technical Specification of Transmitter

Technical Specification	Value
Kind of Equipment	5.8G Motion & Photon Integrated LED Lamp
Type Designation	6Zy-A806ST-Q1M ( y may be A~Z for different enclosure appearance design )
FCC ID	2AB2Q6ZY-A806ST-Q1M
Operating Voltage	AC 120V, 60Hz, 9W
Testing Voltage	AC 120V, 60Hz
Operating Frequency	5750-5850 MHz
Modulation	Un-modulated Carrier
Antenna type	Integral antenna
Antenna Gain	1dBi



### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, wireless transmitting mode
- B. On, lighting
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- |                           |                         |
|---------------------------|-------------------------|
| - Application Form        |                         |
| - Block Diagram           | - Circuit Diagram       |
| - FCC Label and Location  | - Operation Description |
| - Model Difference Letter | - User Manual           |

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2014 and ANSI C63.10: 2013

According to clause 3.1, all models have been pretested and only the worst case with 6ZB-A806ST-Q1M was reported.

### 4.3 Special Accessories and Auxiliary Equipment

None.

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

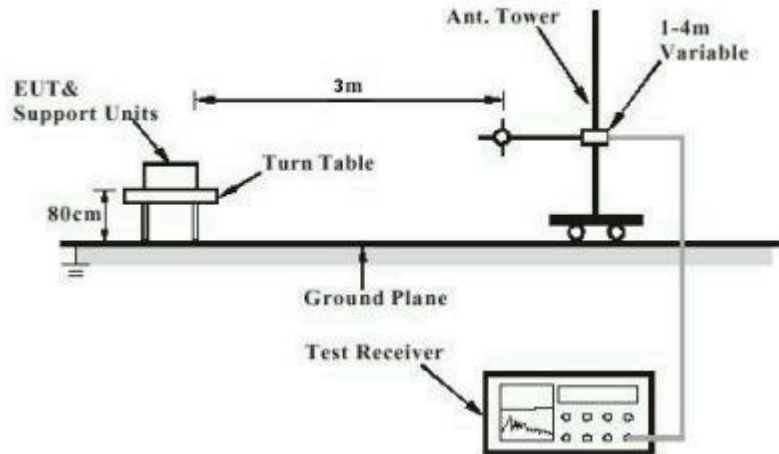
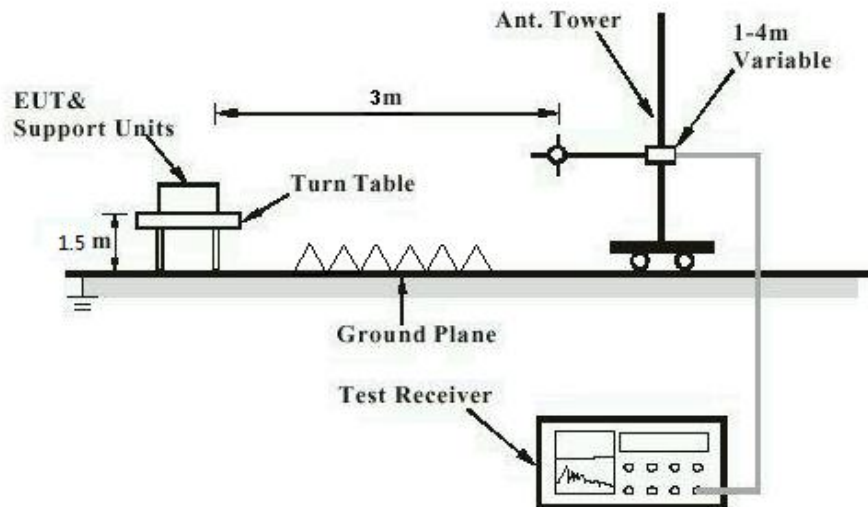
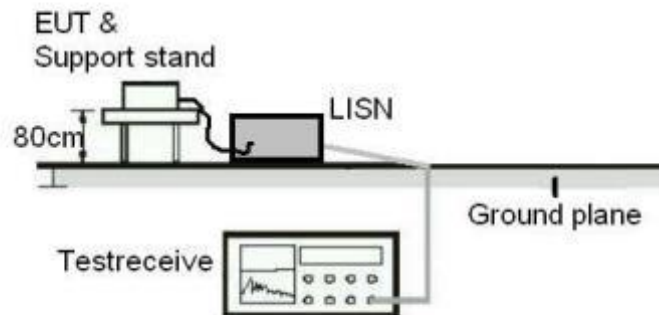


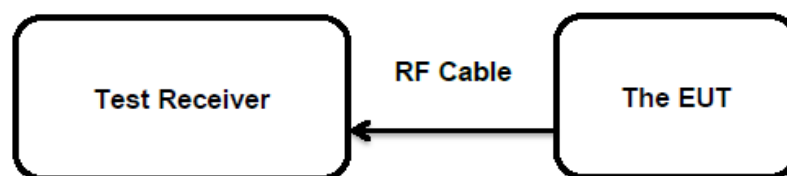
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



### Diagram of Measurement Configuration for Mains Conduction Measurement



### Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.203

According to the manufacturer declared, the EUT has a integral antenna, the directional gain of antenna is 1 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

## 5.1.2 Field Strength of Fundamental and Harmonics

**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.249(a)
Basic standard	: ANSI C63.10: 2013
Limits	: FCC Part 15.249(a)
Kind of test site	: 3m Semi-anechoic Chamber

**Test Setup**

Date of testing	: 23.05.2017
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Ambient temperature	: 23°C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

### 5.1.3 Bandwidth

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.215  
Basic standard : ANSI C63.10: 2013  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 23.05.2017  
Input voltage : AC 120V, 60Hz  
Operation mode : A1  
Ambient temperature : 23 °C  
Relative humidity : 48 %  
Atmospheric pressure : 101 kPa

**Table 3: Test Result of 20dB Bandwidth**

Operation Frequency Range (MHz)	F <sub>low</sub> (MHz)	F <sub>high</sub> (MHz)	Verdict
5750-5850	5799.09696	5812.90304	Pass

Remark: This product use Doppler Effect wireless technology and operates at 5.8GHz ISM frequency band, due to the special technology, the operation frequency of this product will automatically drift, and the above test data are the worst mode.

**5.1.4 Radiated spurious emissions outside band****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.209 (a) FCC Part 15.249 (a)
Basic standard	: ANSI C63.10: 2013
Limits	: FCC Part 15.249
Kind of test site	: 3m Semi-anechoic Chamber

**Test Setup**

Date of testing	: 22.05.2017 ~ 23.05.2017
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Ambient temperature	: 23 °C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.



## 5.1.5 Conducted Emission

**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.107(a) & FCC Part 15.207(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.107(a) & FCC Part 15.207(a)
Kind of test site	: Shielded Room

**Test Setup**

Date of testing	: 17.05.2017
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Earthing	: Not connected
Ambient temperature	: 23 °C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the Appendix A.

### 5.1.6 Radiated Emission

**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.109(a) & FCC Part 15.209(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30 - 6000MHz
Classification	: Class B
Limits	: FCC Part 15.109(a) & FCC Part 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

**Test Setup**

Date of testing	: 23.05.2017
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 23 °C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the Appendix A.

## 6 Safety Human Exposure

### 6.1 Radio Frequency Exposure Compliance

#### 6.1.1 Electromagnetic Fields

RESULT:

Pass

##### Test Specification

Test standard : FCC KDB Publication 447498 v06

##### Measurement Record:

The separation distance of the lamp should be 50mm. The measured maximum peak output power of the lamp is 91.79dBuV/m  $\approx$  -3.44dBm, which is far below the SAR exclusion threshold level 62 mW (Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq$  50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

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## Appendix A

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## Appendix A.1: Field Strength of Fundamental, Harmonics and Spurious Emission

9KHz - 30MHz

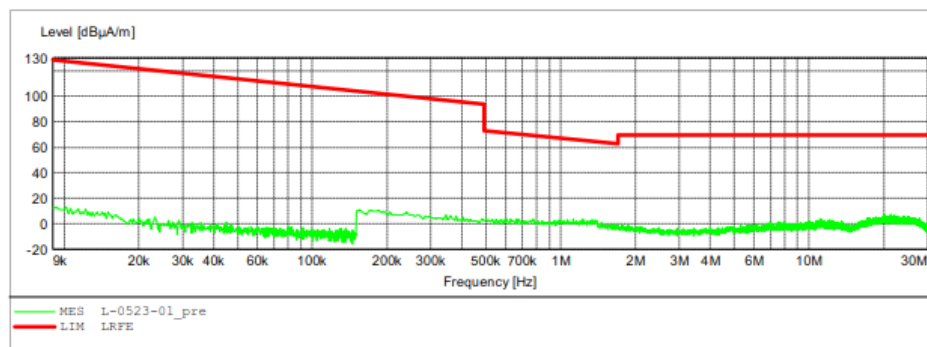
**ACCURATE TECHNOLOGY CO., LTD.**

**FCC Class B 3M Radiated**

EUT: 5.8G Motion & Photon Integrated LED Lamp M/N:6ZB-A806ST-Q1M  
Manufacturer: Leedarson Lighting Co., Ltd.  
Operating Condition: TX  
Test Site: 2# Chamber  
Operator: Apple  
Test Specification: AC 120V/60Hz  
Comment: X  
Start of Test: 2017-05-23 /

### SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



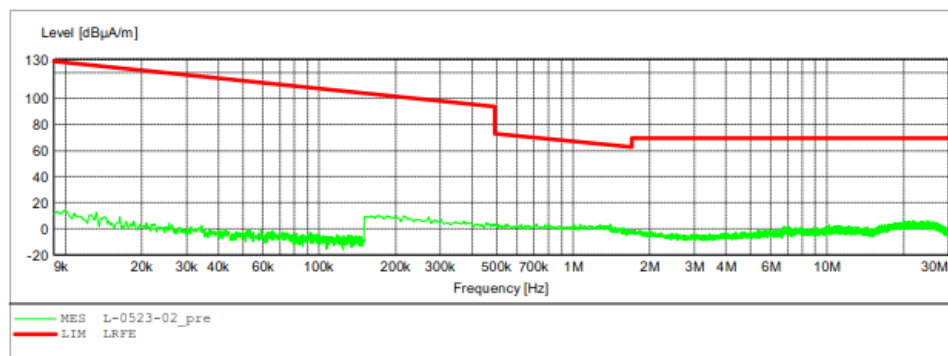
**ACCURATE TECHNOLOGY CO., LTD.**

**FCC Class B 3M Radiated**

EUT: 5.8G Motion & Photon Integrated LED Lamp M/N:6ZB-A806ST-Q1M  
 Manufacturer: Leedarson Lighting Co., Ltd.  
 Operating Condition: TX  
 Test Site: 2# Chamber  
 Operator: Apple  
 Test Specification: AC 120V/60Hz  
 Comment: Y  
 Start of Test: 2017-05-23 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



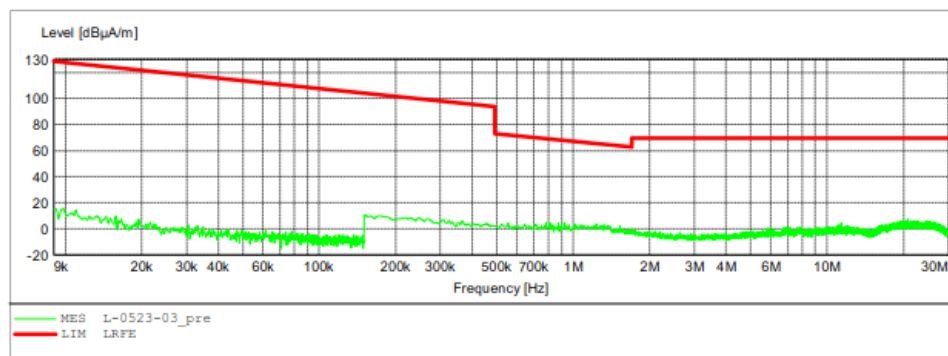
**ACCURATE TECHNOLOGY CO., LTD.**

**FCC Class B 3M Radiated**

EUT: 5.8G Motion & Photon Integrated LED Lamp M/N:6ZB-A806ST-Q1M  
 Manufacturer: Leedarson Lighting Co., Ltd.  
 Operating Condition: TX  
 Test Site: 2# Chamber  
 Operator: Apple  
 Test Specification: AC 120V/60Hz  
 Comment: Z  
 Start of Test: 2017-05-23 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M





30MHz - 1GHz



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Apple #176

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: 5.8G Motion & Photon Integrated LED Lamp

Mode: TX

Model: 6ZB-A806ST-Q1M

Manufacturer: Leedarson Lighting Co., Ltd.

Polarization: Horizontal

Power Source: AC 120V/60Hz

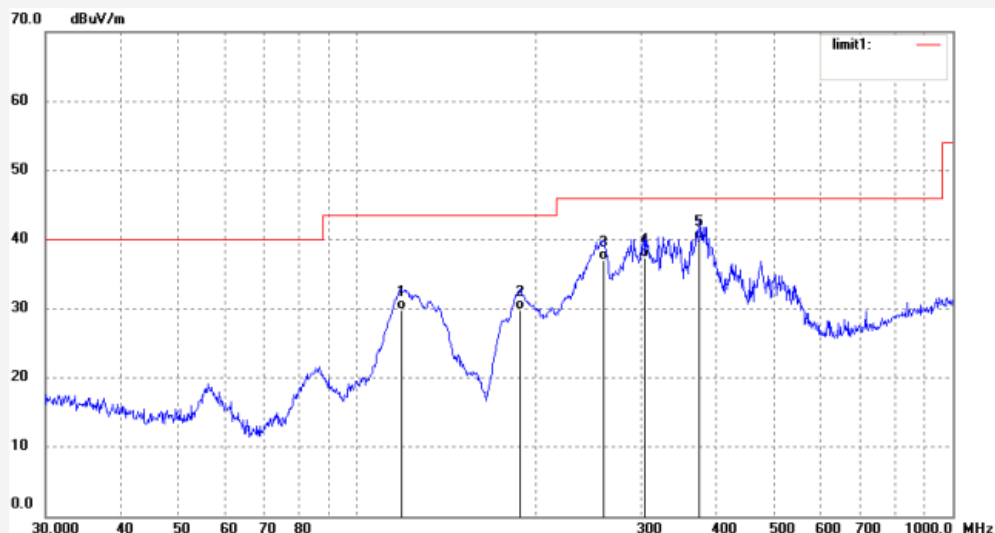
Date: 17/05/23/

Time:

Engineer Signature: Apple

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	118.6014	42.81	-13.05	29.76	43.50	-13.74	QP			
2	187.7530	42.40	-12.52	29.88	43.50	-13.62	QP			
3	259.2338	47.56	-10.49	37.07	46.00	-8.93	QP			
4	303.5437	46.28	-8.96	37.32	46.00	-8.68	QP			
5	374.6225	47.02	-7.08	39.94	46.00	-6.06	QP			



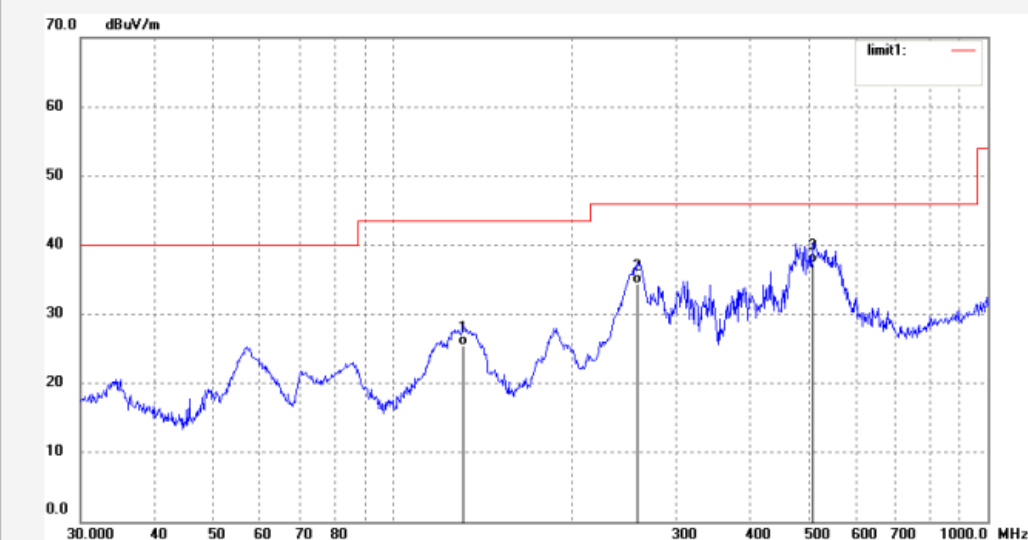
**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Apple #175	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 5.8G Motion & Photon Integrated LED Lamp	Engineer Signature: Apple
Mode: TX	Distance: 3m
Model: 6ZB-A806ST-Q1M	
Manufacturer: Leedarson Lighting Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	131.7577	39.22	-13.83	25.39	43.50	-18.11	QP			
2	258.3264	44.95	-10.49	34.46	46.00	-11.54	QP			
3	508.2582	41.51	-4.09	37.42	46.00	-8.58	QP			

1GHz - 18GHz



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Apple #178

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: 5.8G Motion & Photon Integrated LED Lamp

Mode: TX

Model: 6ZB-A806ST-Q1M

Manufacturer: Leedarson Lighting Co., Ltd.

Polarization: Horizontal

Power Source: AC 120V/60Hz

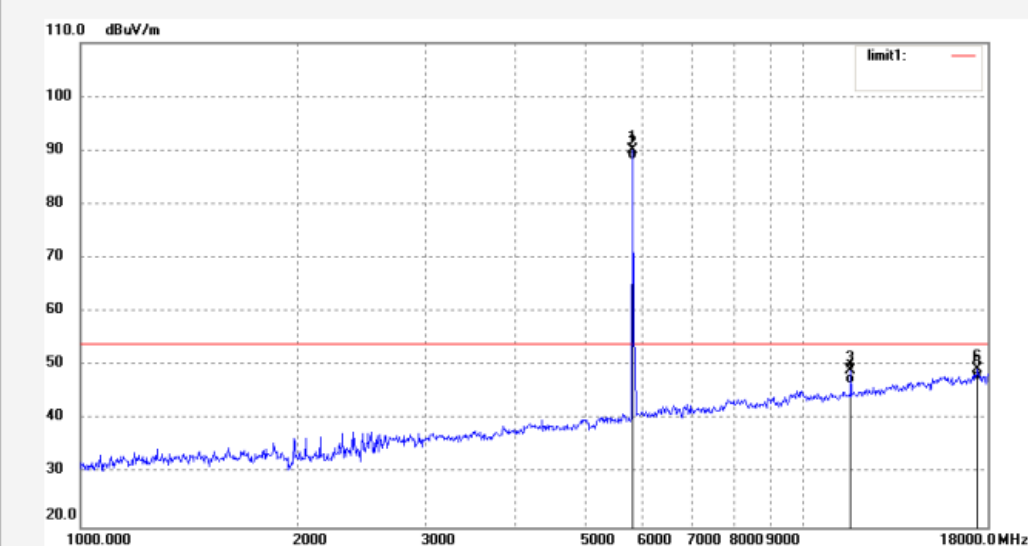
Date: 17/05/23/

Time:

Engineer Signature: Apple

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5803.220	82.05	8.11	90.16	114.00	-23.84	peak			
2	5803.220	80.26	8.11	88.37	94.00	-6.63	AVG			
3	11606.568	28.83	20.39	49.22	74.00	-24.78	peak			
4	11606.568	26.29	20.39	46.68	54.00	-7.32	AVG			
5	17409.709	-15.35	62.79	47.44	54.00	-6.56	AVG			
6	17409.710	-13.47	62.91	49.44	74.00	-24.56	peak			



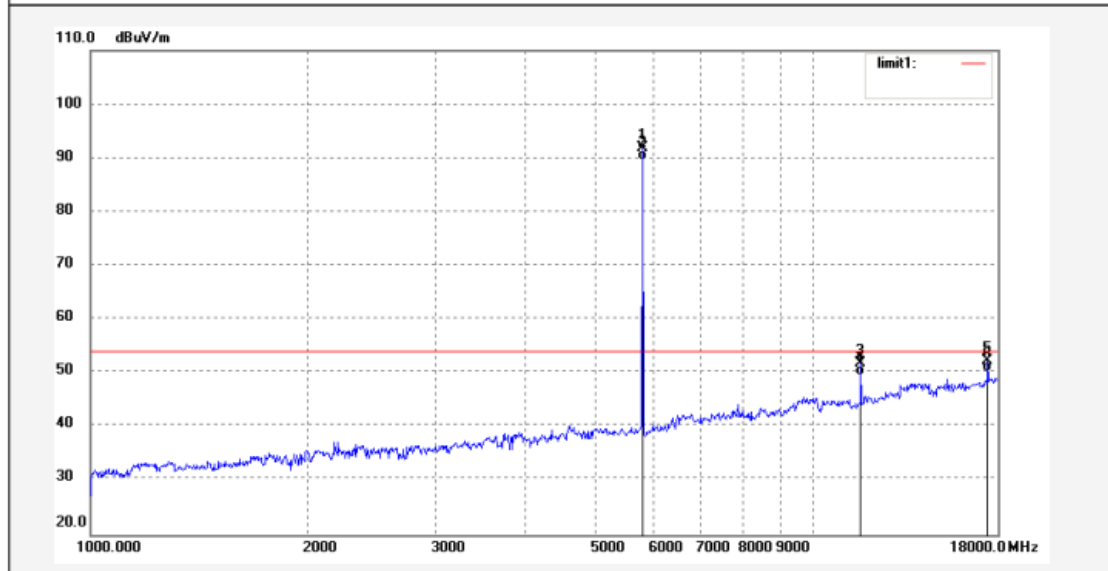
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Apple #177	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 5.8G Motion & Photon Integrated LED Lamp	Engineer Signature: Apple
Mode: TX	Distance: 3m
Model: 6ZB-A806ST-Q1M	
Manufacturer: Leedarson Lighting Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5802.944	83.69	8.10	91.79	114.00	-22.21	peak			
2	5802.944	81.53	8.10	89.63	94.00	-4.37	AVG			
3	11605.976	31.54	20.38	51.92	74.00	-22.08	peak			
4	11605.976	29.29	20.38	49.67	54.00	-4.33	AVG			
5	17408.989	-10.61	62.79	52.18	74.00	-21.82	peak			
6	17408.989	-12.47	62.79	50.32	54.00	-3.68	AVG			

18GHz - 26.5GHz



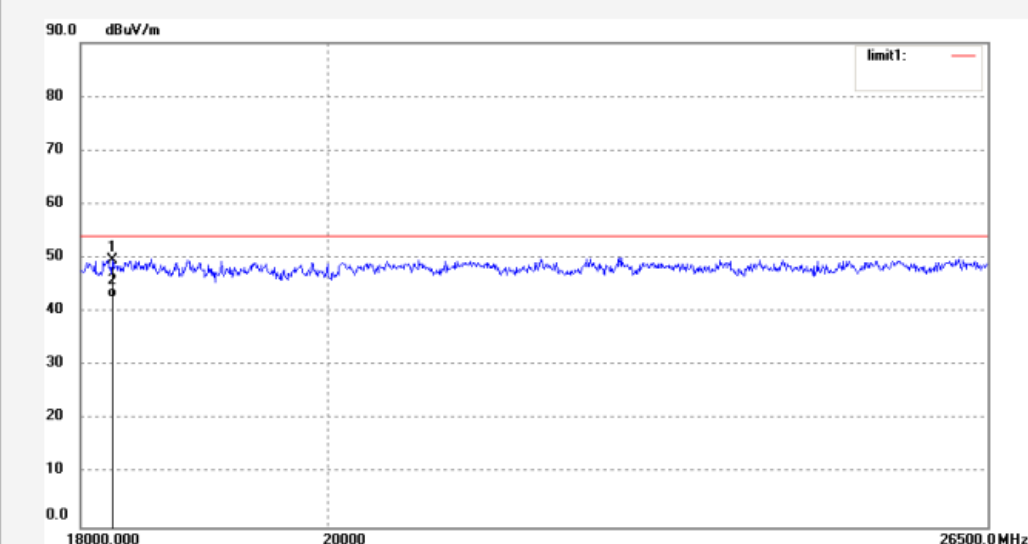
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Apple #185	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 5.8G Motion & Photon Integrated LED Lamp	Engineer Signature: Apple
Mode: TX	Distance: 3m
Model: 6ZB-A806ST-Q1M	
Manufacturer: Leedarson Lighting Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18245.324	49.60	0.00	49.60	74.00	-24.40	peak			
2	18245.324	42.58	0.00	42.58	54.00	-11.42	AVG			



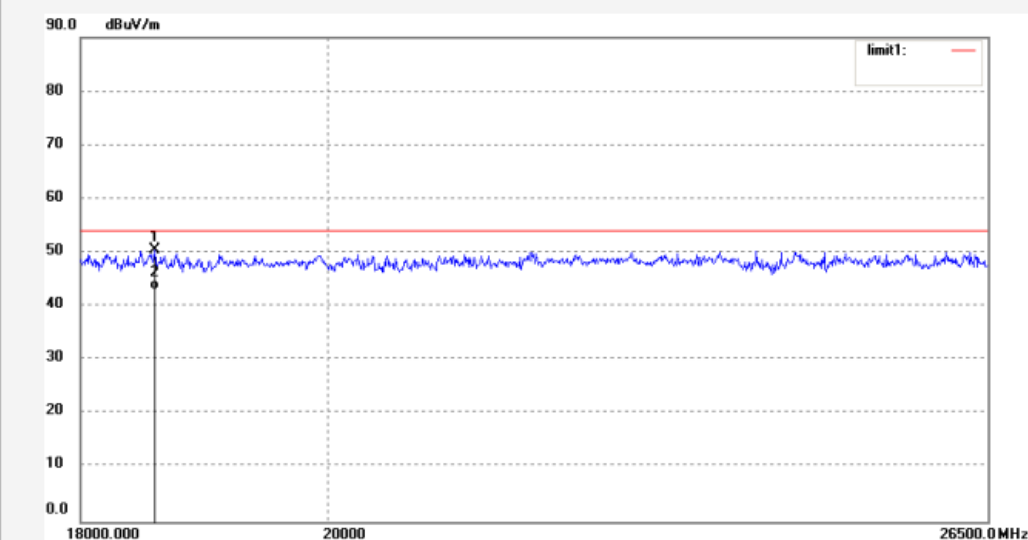
**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Apple #184	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 5.8G Motion & Photon Integrated LED Lamp	Engineer Signature: Apple
Mode: TX	Distance: 3m
Model: 6ZB-A806ST-Q1M	
Manufacturer: Leedarson Lighting Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18580.026	50.48	0.00	50.48	74.00	-23.52	peak			
2	18580.026	43.05	0.00	43.05	54.00	-10.95	AVG			

## 26.5GHz - 40GHz

EMI Sweep(3)

1 / 1

# Radiated Emission

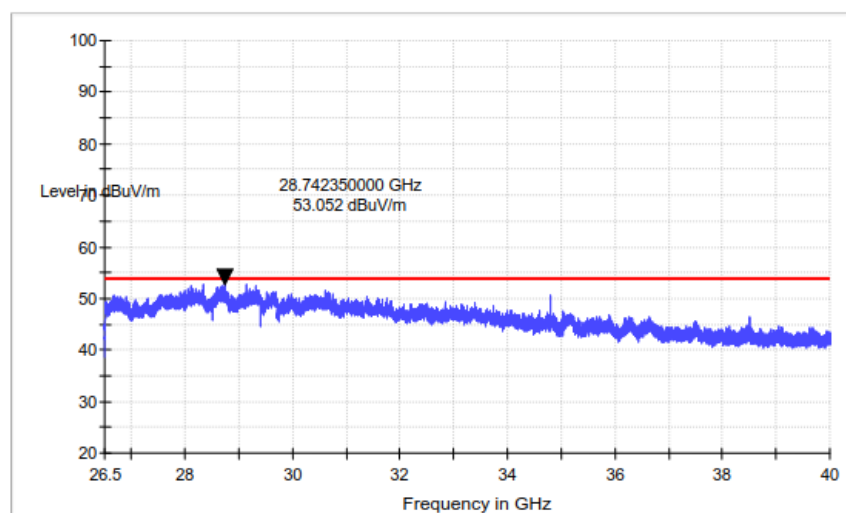
## EUT Information

EUT Model Name:	5.8G Motion & Photon Integrated LED Lamp
Operation mode:	TX
Test Voltage:	AC 120V/60Hz
Comment:	Model: 6ZB-A806ST-Q1M

## Common Information

Test Site:	SMQ EMC Lab.
Environment Conditions:	
Antenna Polarization:	Horizontal
Operator Name:	
Comment:	

FCC Electric Field Strength 26.5-40GHz



EMI Sweep(3)

1 / 1

## Radiated Emission

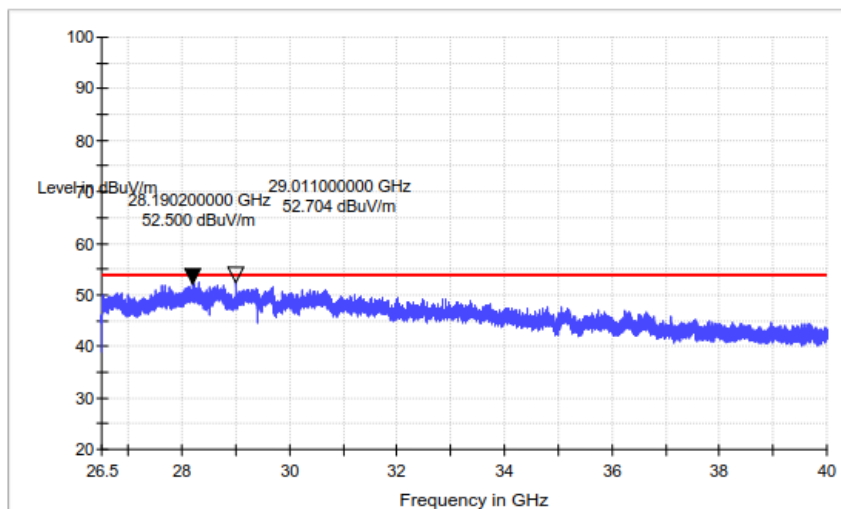
### EUT Information

EUT Model Name:	5.8G Motion & Photon Integrated LED Lamp
Operation mode:	TX
Test Voltage:	AC 120V/60Hz
Comment:	Model: 6ZB-A806ST-Q1M

### Common Information

Test Site:	SMQ EMC Lab.
Environment Conditions:	
Antenna Polarization:	Vertical
Operator Name:	
Comment:	

FCC Electric Field Strength 26.5-40GHz





## Appendix A.2: Test Plots of Band Edge (Radiated)



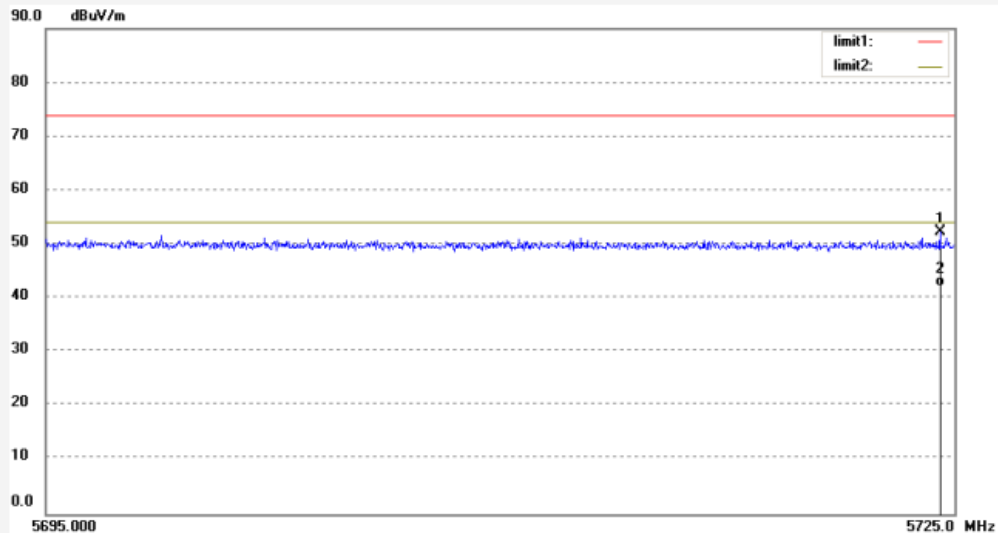
### ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #2953	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 5.8G Motion & Photon Integrated LED Lamp	Engineer Signature: PEI
Mode: TX	Distance: 3m
Model: 6ZB-A806ST-Q1M	
Manufacturer: Leedarson Lighting Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
3	863.0562	28.65	1.82	30.47	46.00	-15.53	QP			
1	5724.520	44.71	7.65	52.36	74.00	-21.64	peak			
2	5724.520	34.49	7.65	42.14	54.00	-11.86	AVG			



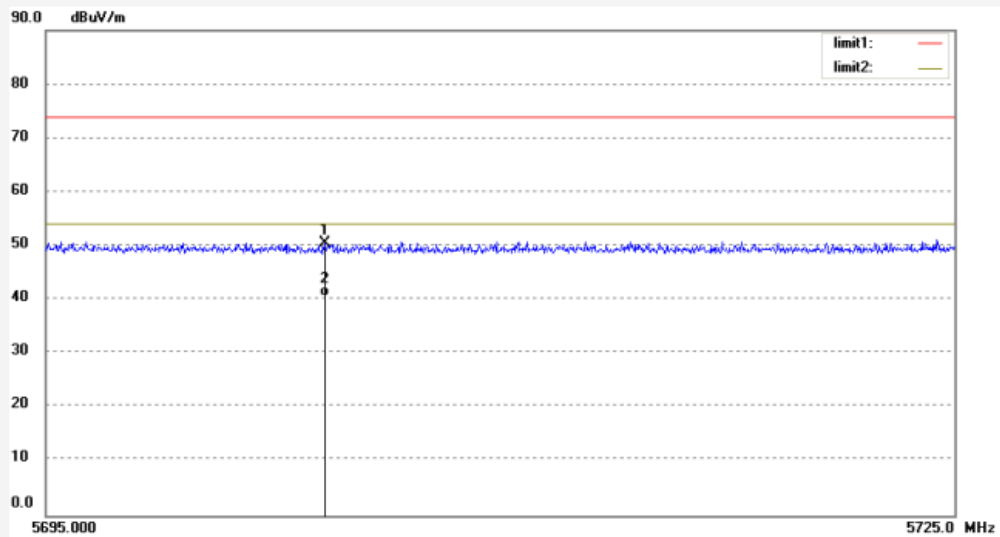
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #2954	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 5.8G Motion & Photon Integrated LED Lamp	Engineer Signature: PEI
Mode: TX	Distance: 3m
Model: 6ZB-A806ST-Q1M	
Manufacturer: Leedarson Lighting Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
2	5724.520	34.49	7.65	42.14	54.00	-11.86	AVG			
1	5704.210	42.97	7.53	50.50	74.00	-23.50	peak			
2	5704.210	32.98	7.53	40.51	54.00	-13.49	AVG			



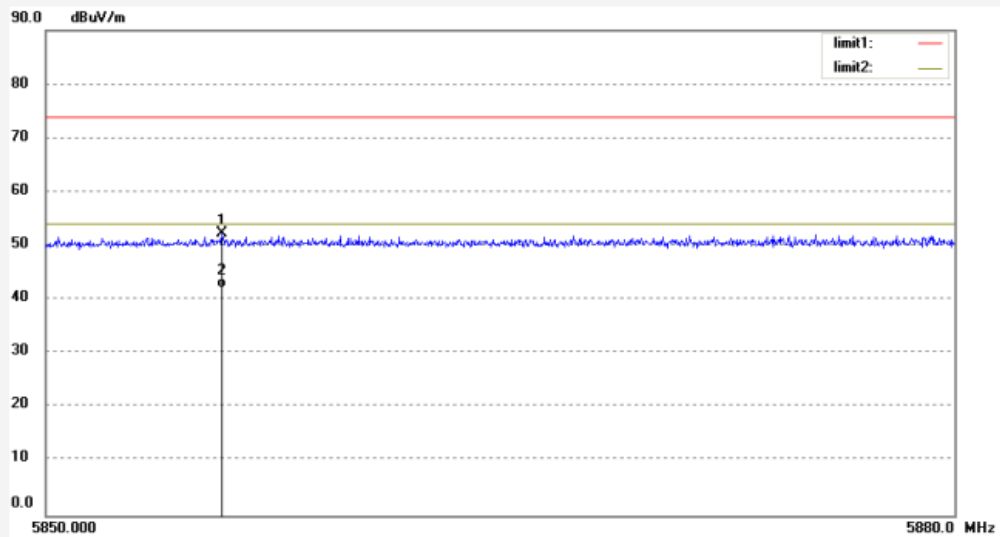
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #2956	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 5.8G Motion & Photon Integrated LED Lamp	Engineer Signature: PEI
Mode: TX	Distance: 3m
Model: 6ZB-A806ST-Q1M	
Manufacturer: Leedarson Lighting Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
2	5866.740	34.03	8.31	42.34	54.00	-11.66	AVG			
1	5855.820	43.96	8.27	52.23	74.00	-21.77	peak			
2	5855.820	34.03	8.27	42.30	54.00	-11.70	AVG			



**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #2955

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: 5.8G Motion & Photon Integrated LED Lamp

Mode: TX

Model: 6ZB-A806ST-Q1M

Manufacturer: Leedarson Lighting Co., Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

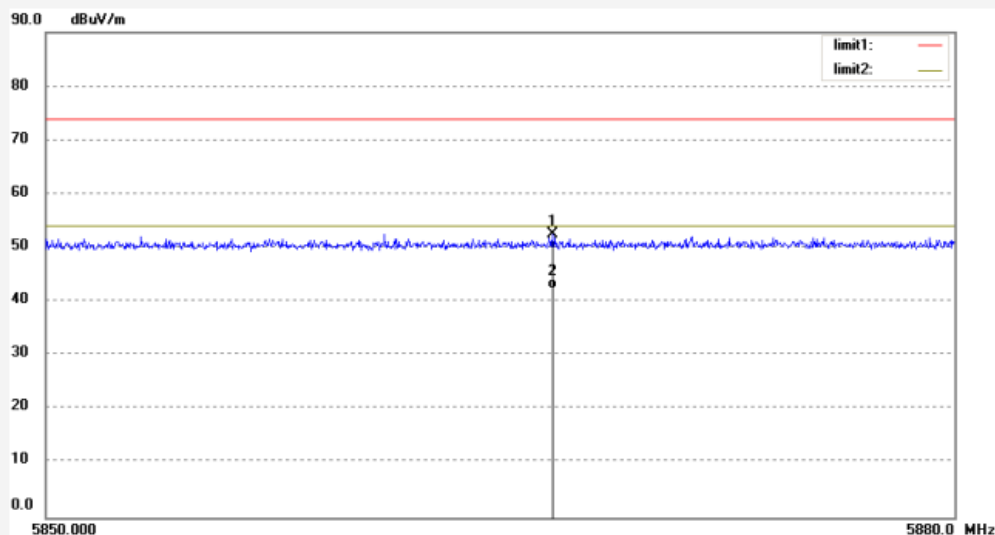
Date: 17/05/23/

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
2	5704.210	32.98	7.53	40.51	54.00	-13.49	AVG			
1	5866.740	44.18	8.31	52.49	74.00	-21.51	peak			
2	5866.740	34.03	8.31	42.34	54.00	-11.66	AVG			

## Appendix A.3: Test Plots of Conducted Emission

### Mode A

**ACCURATE TECHNOLOGY CO., LTD**

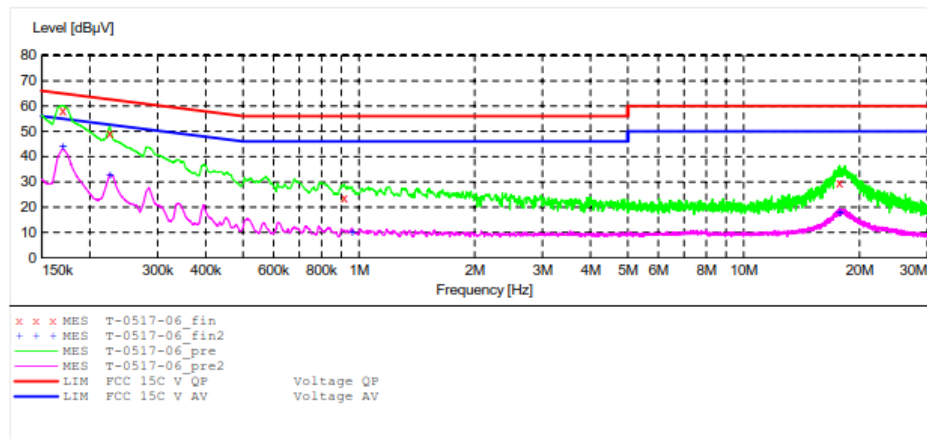
**CONDUCTED EMISSION STANDARD FCC PART 15 C**

EUT: 5.8G Motion & Photon Integrated LED Lamp M/N:62B-A806ST-Q1M  
 Manufacturer: Leedarson Lighting Co., Ltd.  
 Operating Condition: TX  
 Test Site: 1#Shielding Room  
 Operator: PING  
 Test Specification: L 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 5/17/2017 /

#### SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70  

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	Average	1.0 s	9 kHz	NSLK8126 2008



#### MEASUREMENT RESULT: "T-0517-06\_fin"

5/17/2017

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	57.90	10.5	65	7.1	QP	L1	GND
0.225000	49.40	10.6	63	13.2	QP	L1	GND
0.915000	23.60	10.8	56	32.4	QP	L1	GND
17.740000	29.40	11.4	60	30.6	QP	L1	GND

#### MEASUREMENT RESULT: "T-0517-06\_fin2"

5/17/2017

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	43.90	10.5	55	11.1	AV	L1	GND
0.225000	32.70	10.6	53	19.9	AV	L1	GND
0.960000	10.00	10.8	46	36.0	AV	L1	GND
17.740000	17.40	11.4	50	32.6	AV	L1	GND

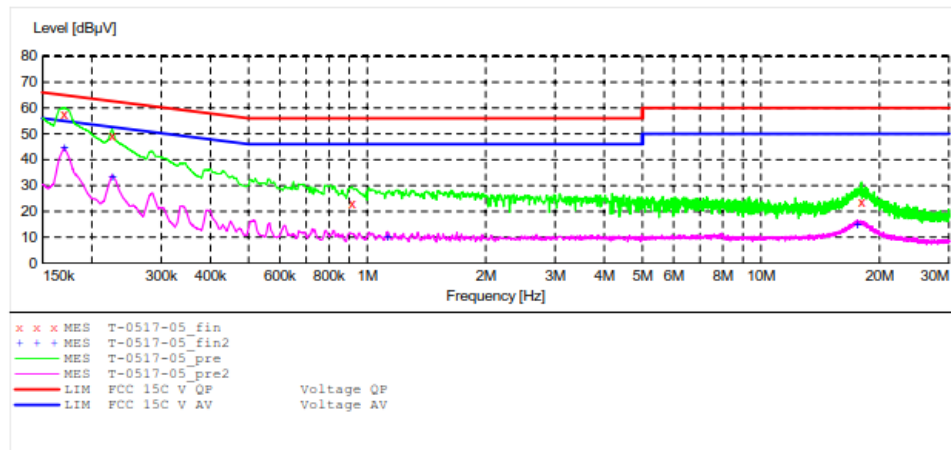
**ACCURATE TECHNOLOGY CO.,LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 C**

EUT: 5.8G Motion & Photon Integrated LED Lamp M/N:62B-A806ST-Q1M  
 Manufacturer: Leedarsen Lighting Co., Ltd.  
 Operating Condition: TX  
 Test Site: 1#Shielding Room  
 Operator: PING  
 Test Specification: N 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 5/17/2017 /

**SCAN TABLE: "V 9K-30MHz fin"**

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



**MEASUREMENT RESULT: "T-0517-05\_fin"**

5/17/2017

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	57.90	10.5	65	7.1	QP	N	GND
0.225000	49.20	10.6	63	13.4	QP	N	GND
0.915000	23.00	10.8	56	33.0	QP	N	GND
17.995000	23.70	11.4	60	36.3	QP	N	GND

**MEASUREMENT RESULT: "T-0517-05\_fin2"**

5/17/2017

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	44.20	10.5	55	10.8	AV	N	GND
0.225000	32.90	10.6	53	19.7	AV	N	GND
1.125000	9.80	10.9	46	36.2	AV	N	GND
17.545000	14.80	11.4	50	35.2	AV	N	GND

Mode B

**ACCURATE TECHNOLOGY CO., LTD**

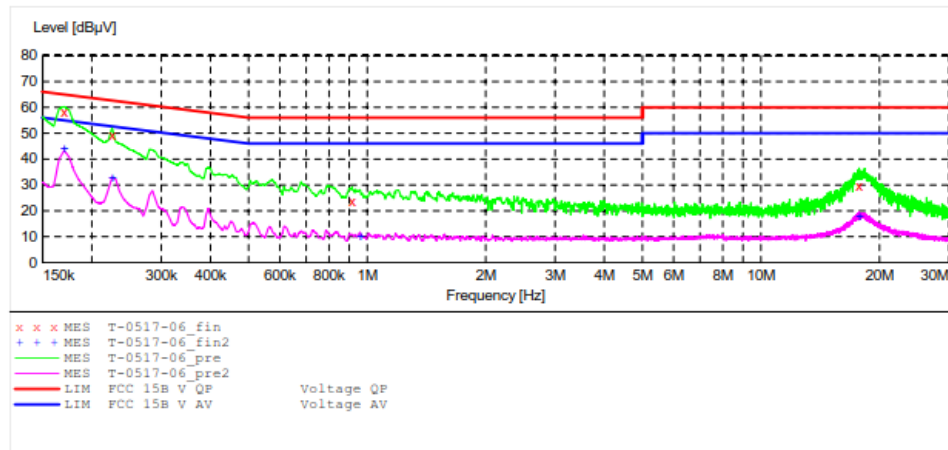
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: 5.8G Motion & Photon Integrated LED Lamp M/N:6ZB-A806ST-Q1M  
 Manufacturer: Leedarson Lighting Co., Ltd.  
 Operating Condition: On  
 Test Site: 1#Shielding Room  
 Operator: PING  
 Test Specification: L 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 5/17/2017 /

**SCAN TABLE: "V 9K-30MHz fin"**

Short Description: \_SUB STD VTERM2 1.70  

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



**MEASUREMENT RESULT: "T-0517-06\_fin"**

5/17/2017

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	57.90	10.5	65	7.1	QP	L1	GND
0.225000	49.40	10.6	63	13.2	QP	L1	GND
0.915000	23.60	10.8	56	32.4	QP	L1	GND
17.740000	29.40	11.4	60	30.6	QP	L1	GND

**MEASUREMENT RESULT: "T-0517-06\_fin2"**

5/17/2017

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	43.90	10.5	55	11.1	AV	L1	GND
0.225000	32.70	10.6	53	19.9	AV	L1	GND
0.960000	10.00	10.8	46	36.0	AV	L1	GND
17.740000	17.40	11.4	50	32.6	AV	L1	GND



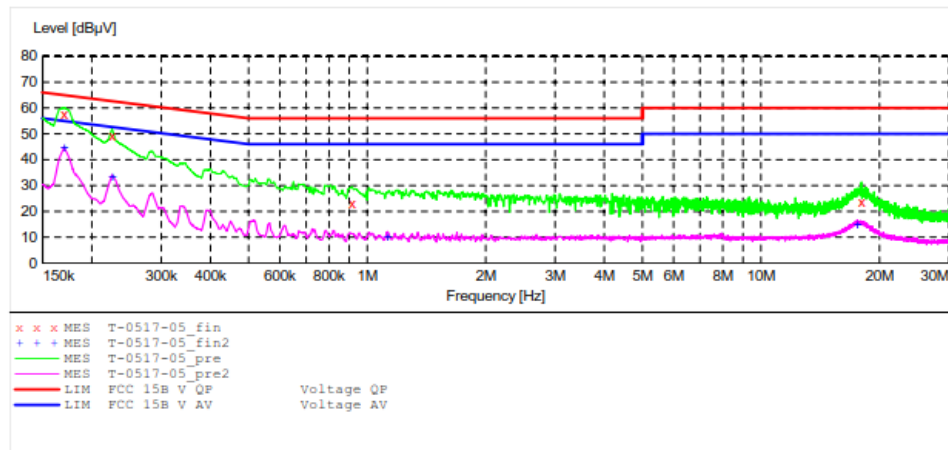
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: 5.8G Motion & Photon Integrated LED Lamp M/N:6ZB-A806ST-Q1M  
 Manufacturer: Leedarson Lighting Co., Ltd.  
 Operating Condition: On  
 Test Site: 1#Shielding Room  
 Operator: PING  
 Test Specification: N 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 5/17/2017 /

**SCAN TABLE: "V 9K-30MHz fin"**

Short Description:			SUB STD VTERM2 1.70				
Start	Stop	Step	Detector	Meas.	IF	Transducer	
Frequency	Frequency	Width		Time	Bandw.		
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008	
			Average				
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008	
			Average				



**MEASUREMENT RESULT: "T-0517-05\_fin"**

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	57.90	10.5	65	7.1	QP	N	GND
0.225000	49.20	10.6	63	13.4	QP	N	GND
0.915000	23.00	10.8	56	33.0	QP	N	GND
17.995000	23.70	11.4	60	36.3	QP	N	GND

**MEASUREMENT RESULT: "T-0517-05\_fin2"**

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	44.20	10.5	55	10.8	AV	N	GND
0.225000	32.90	10.6	53	19.7	AV	N	GND
1.125000	9.80	10.9	46	36.2	AV	N	GND
17.545000	14.80	11.4	50	35.2	AV	N	GND



## Appendix A.4: Test Plots of Radiated Emission

### Mode B



#### ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Apple #173

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: 5.8G Motion & Photon Integrated LED Lamp

Mode: On

Model: 6ZB-A806ST-Q1M

Manufacturer: Leedarson Lighting Co., Ltd.

Polarization: Horizontal

Power Source: AC 120V/60Hz

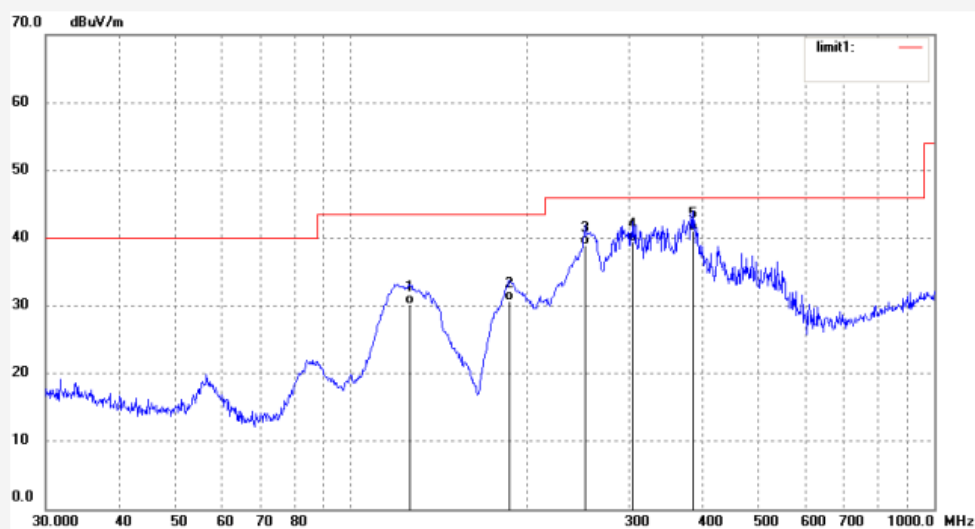
Date: 17/05/23/

Time:

Engineer Signature: Apple

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
3	296.1836	47.92	-9.09	38.83	57.00	-18.17	peak			
1	126.3286	43.85	-13.67	30.18	43.50	-13.32	QP			
2	187.0958	43.23	-12.53	30.70	43.50	-12.80	QP			
3	252.0627	49.40	-10.54	38.86	46.00	-7.14	QP			
4	304.6099	48.41	-8.93	39.48	46.00	-6.52	QP			
5	385.2805	47.96	-6.91	41.05	46.00	-4.95	QP			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Apple #174

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: 5.8G Motion & Photon Integrated LED Lamp

Mode: On

Model: 6ZB-A806ST-Q1M

Manufacturer: Leedarson Lighting Co., Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

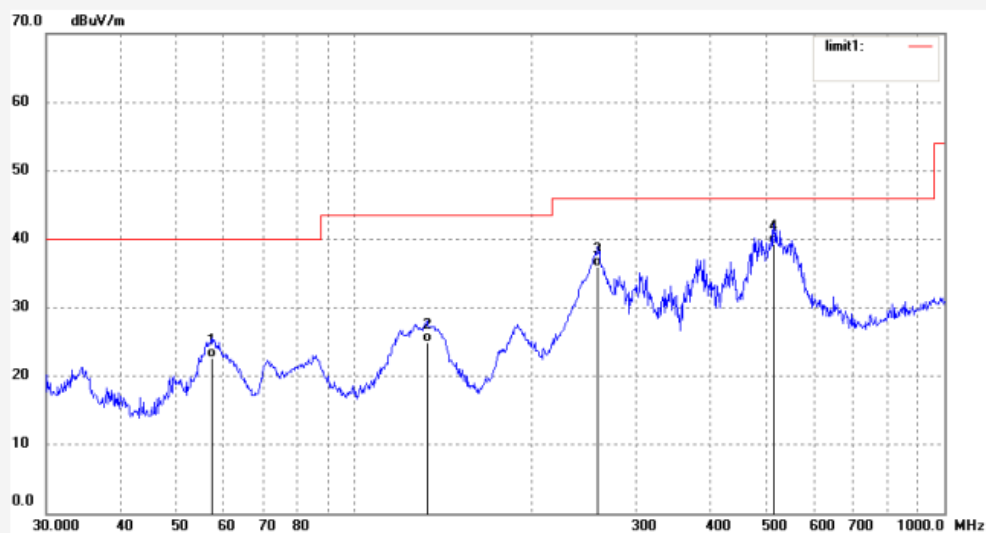
Date: 17/05/23/

Time:

Engineer Signature: Apple

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
5	385.2805	47.96	-6.91	41.05	46.00	-4.95	QP			
1	57.1914	36.02	-13.37	22.65	40.00	-17.35	QP			
2	132.6850	38.88	-13.87	25.01	43.50	-18.49	QP			
3	258.3264	46.44	-10.49	35.95	46.00	-10.05	QP			
4	513.6331	43.30	-4.01	39.29	46.00	-6.71	QP			



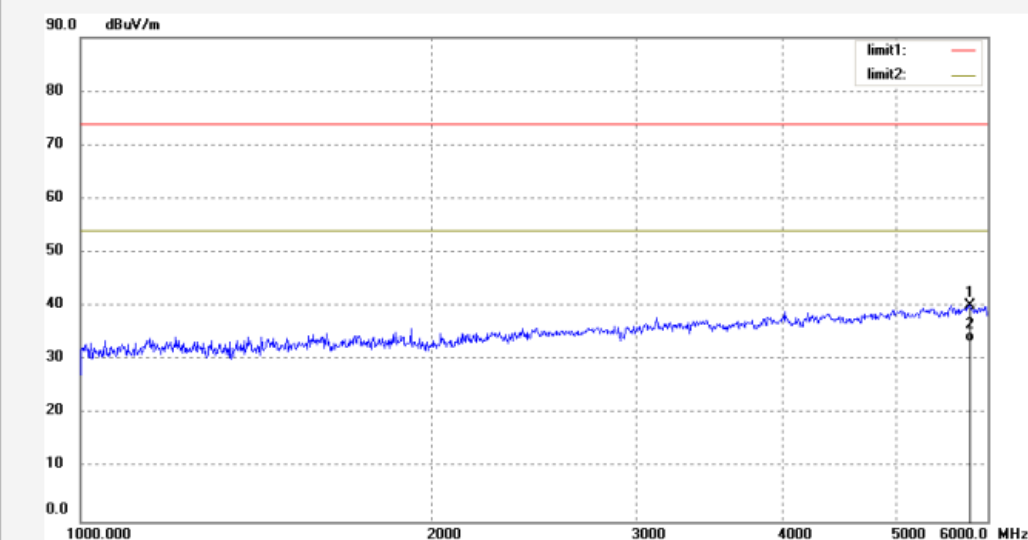
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Apple #180	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 5.8G Motion & Photon Integrated LED Lamp	Engineer Signature: Apple
Mode: On	Distance: 3m
Model: 6ZB-A806ST-Q1M	
Manufacturer: Leedarson Lighting Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5799.177	32.10	8.10	40.20	74.00	-33.80	peak			
2	5799.177	25.39	8.10	33.49	54.00	-20.51	AVG			



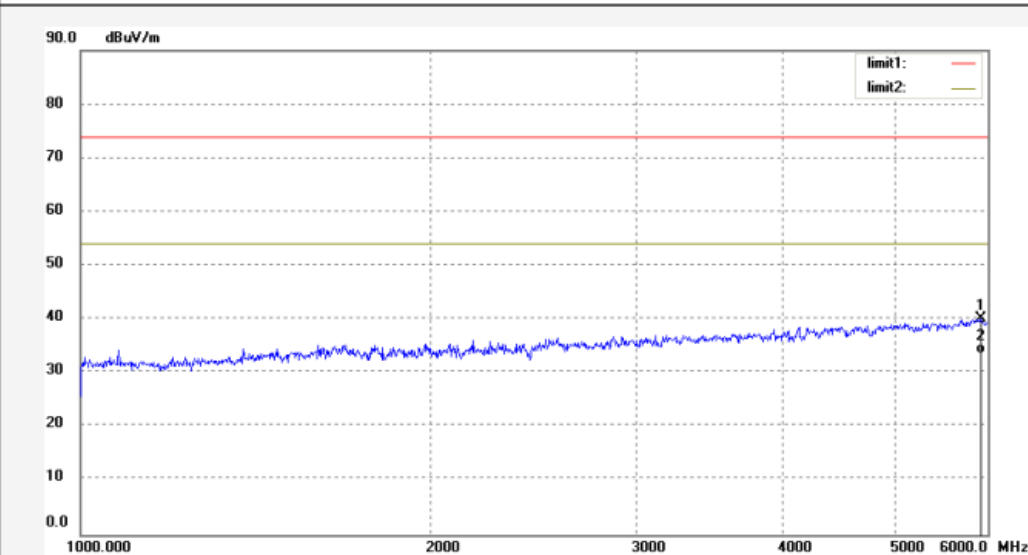
**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Apple #181	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 5.8G Motion & Photon Integrated LED Lamp	Engineer Signature: Apple
Mode: On	Distance: 3m
Model: 6ZB-A806ST-Q1M	
Manufacturer: Leedarson Lighting Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5914.609	31.61	8.46	40.07	74.00	-33.93	peak			
2	5914.609	25.28	8.46	33.74	54.00	-20.26	AVG			