

# FCC RADIO TEST REPORT FCC ID: 2AITYSL-OSW-03

**Product**: Laser remote controller

Trade Name: N/A

Model Name: SL-OSW-03

Serial Model: SL-OSW-01,SL-OSW-02,SL-OSW04,SL-OSW-10

Report No.: POCE-160612312F

# **Prepared for**

Sun Lighting Technology Co.,LTD

4F D Building ShangPai Industrial Zone,Beihuan Road,Shiyan Town,
Bao'an District, Shenzhen,GD518108,China

# Prepared by

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Baoan District,Shenzhen, China

Page 2 of 27 Report No.: POCE-160612312F

#### TEST RESULT CERTIFICATION

Applicant's name .....: Sun Lighting Technology Co.,LTD

Address ...... : 4F D Building ShangPai Industrial Zone,Beihuan Road,Shiyan

Town, Bao'an District, Shenzhen, GD518108, China

Manufacture's Name.....: Sun Lighting Technology Co.,LTD

Address ...... 4F D Building ShangPai Industrial Zone,Beihuan Road,Shiyan

Town, Bao'an District, Shenzhen, GD518108, China

**Product description** 

Product name .....: Laser remote controller

Model and/or type reference : SL-OSW-03

Serial Model: SL-OSW-01,SL-OSW-02,SL-OSW04,SL-OSW-10

Standards ..... FCC Part15.231a

Test procedure ...... ANSI C63.10: 2013

This device described above has been tested by POCE, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test .....

Date (s) of performance of tests ...... 10 Jun. 2016 ~17Jun. 2016

Date of Issue : 17Jun. 2016

Test Result..... Pass

Testing Engineer : (yan Chen

(Lvnn Chen)

Technical Manager :

(Carlen Liu)

Authorized Signatory:

(Tommy zhang)



Table of Contents	Page
1 . SUMMARY OF TEST RESULTS	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 8
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	9
3 . ANTENNA REQUIREMENT	11
3.1 STANDARD REQUIREMENT	11
3.2 EUT ANTENNA	11
3.3 CONDUCTED EMISSION MEASUREMENT	12
3.3.1 POWER LINE CONDUCTED EMISSION LIMITS	12
3.3.2 TEST PROCEDURE 3.3.3 DEVIATION FROM TEST STANDARD	13 13
3.3.4 TEST SETUP	13
3.2.5 TEST RESULT	14
3.4 RADIATED EMISSION MEASUREMENT	15
3.4.1 RADIATED EMISSION LIMITS	15
3.4.2 TEST PROCEDURE	16
3.4.3 DEVIATION FROM TEST STANDARD	16
3.4.4 TEST SETUP 3.4.5 TEST RESULTS (BLOW 30MHZ)	16 18
3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)	19
4 . BANDWIDTH TEST	24
4.1 TEST PROCEDURE	24
4.2 DEVIATION FROM STANDARD	24
4.3 TEST SETUP	24
4.4 TEST RESULTS	25
5 . PERIODIC RATE EXCEEDING	26
5.1 REQUIREMENTS	26
5.2 TEST PROCEDURE	26 26
5.3 TEST SETUP 5.4 TEST RESULTS	26 26
APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	20



# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15, Subpart C (15.231)			
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	N/A	Note(1)	
15.203	Antenna Requirement	Pass		
15.231	Radiated Spurious Emission	Pass		
15.231	5.231 Occupied Bandwidth Pass			
15.231	Deactivation Time	Pass		

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(1) " N/A" denotes test is not applicable in this Test Report.



## 1.1 TEST FACILITY

Shenzhen POCE Technology Co.,Ltd.

Add.: Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen,

China

FCC-Registration No.: 222278

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



Page 6 of 27 Report No.: POCE-160612312F

# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Laser remote controller		
Trade Name	N/A		
Model Name	SL-OSW-03		
Serial Model	SL-OSW-01,SL-OSW-0	02,SL-OSW04,SL-OSW-10	
Model Difference	Only model name is diff	ferent.	
Product Description	Only model name is different.  The EUT is a Laser remote controller  Product Type Remote Control  Operation Frequency: 433.92MHz  Modulation Type: FSK  Number Of Channel 1CH.  Antenna Designation: Cylindrical antenna  Antenna Gain(Peak) 0.4dBi  Output Power: 89.5dBuV/m@3m  Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as ar ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Channel List	N/A		
Adapter	N/A		
Battery	DC 3.7V,500mAH		

#### Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 2.

# Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Cylindrical antenna	NA	0.4	Antenna



## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX

For Conducted Emission		
Final Test Mode	Description	
Mode 1	N/A	

For Radiated Emission		
Final Test Mode	Description	
Mode 1	TX	

Note:

(1) The EUT use new battery.



POCE Technology	Page 8 of 27	Report No.: POCE-160612312F
2.3 BLOCK DIGRAM	SHOWING THE CONFIGURATIO	N OF SYSTEM TESTED
Radiated Spurious Em	nission Test	
	E-1 EUT	



# 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Laser remote controller	BOSHEL	SL-OSW-03	YT-890,YT-900	EUT

Item	Shielded Type	Ferrite Core	Length	Note

## Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.



# 2.4.1EQUIPMENTS LIST FOR ALL TEST ITEMS

**Radiation Test equipment** 

	radiation root oquipmont					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2016	
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2016	
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2016	
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2016	
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2016	
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2016	
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2016	
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2016	
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2016	
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2016	

**Conduction Test equipment** 

Conc	Conduction rest equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2016	
2	LISN	R&S	ENV216	101313	Jul. 06. 2016	
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2016	
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2016	
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2016	
6	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2016	



# 3. ANTENNA REQUIREMENT

## 3.1 STANDARD REQUIREMENT

15.203 requirements: For intentional device, according to 15.203: 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.

## 3.2 EUT ANTENNA

The EUT antenna is non detachable antenna.	It complies with	the standard	d requirement.
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## 3.3 CONDUCTED EMISSION MEASUREMENT

# 3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		
FREQUENCT (MILE)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



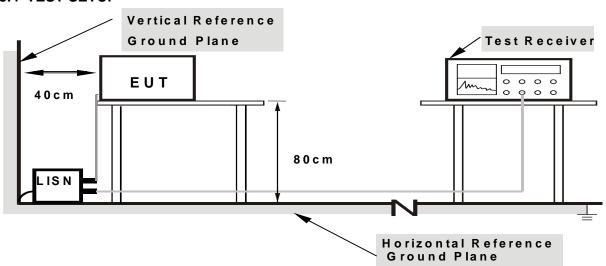
#### 3.3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes





# 3.2.5 TEST RESULT

EUT:	Laser remote controller	Model Name. :	SL-OSW-03
Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	N/A	Test Mode:	N/A

Owing to the EUT use battery supply voltage, this test item is not performed.



Page 15 of 27 Report No.: POCE-160612312F

# 3.4 RADIATED EMISSION MEASUREMENT

#### **3.4.1 Radiated Emission Limits** (FCC 15.209)

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

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

## LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.231a)

Fundamental Frequency (MHz)	Field Strength of fundamental (microvolts/meter)	Field Strength of Unwanted Emissions (microvolts/meter)
40.66 - 40.70	2.250	225
70 - 130	1250	125
130 - 174	1250 to 3750	125 to 375
174 - 260	3750	375
260 - 470	3750-12500	375 to 1250
Above 470	12500	1250

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μV/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz,  $\mu$ V/m at 3 meters = 41.6667(F) - 41.6667(F)7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak



Receiver ParameterSettingAttenuationAutoStart ~ Stop Frequency9kHz~150kHz / RB 200Hz for QPStart ~ Stop Frequency150kHz~30MHz / RB 9kHz for QPStart ~ Stop Frequency30MHz~1000MHz / RB 120kHz for QP

Report No.: POCE-160612312F

#### 3.4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than AV Mode Limit, the EUT shall be deemed to meet AV Limits and then no additional AV Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

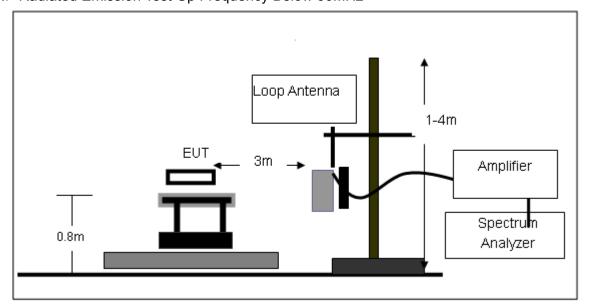
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

#### 3.4.3 DEVIATION FROM TEST STANDARD

No deviation

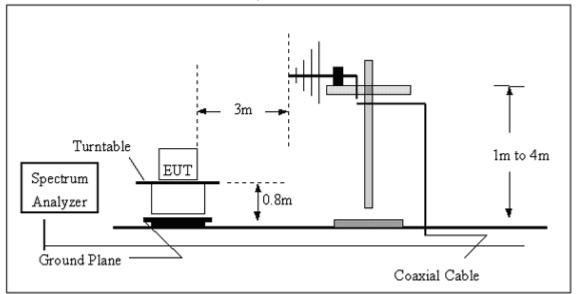
#### 3.4.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

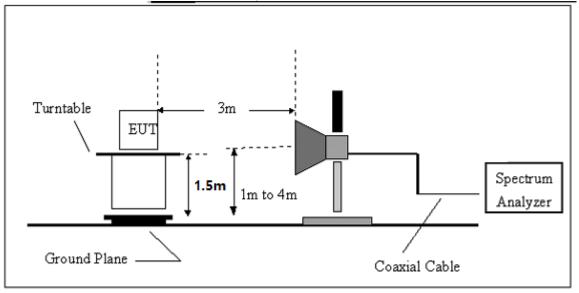




# (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



# (C) Radiated Emission Test-Up Frequency Above 1GHz



•



# 3.4.5 TEST RESULTS (BLOW 30MHz)

EUT:	Laser remote controller	Model Name. :	SL-OSW-03
Temperature :	<b>20</b> ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

## NOTE:

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

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



## 3.4.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

The duty cycle is simply the on time divided by the period:

The duration of one cycle = 73.5ms

On time of one signal=0.425ms,

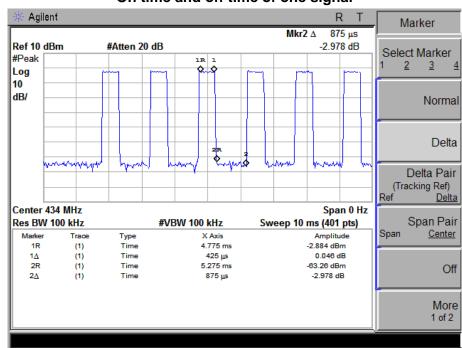
DC = 0.425ms\*37/73.5= 0.214

Therefore, the average factor is found by 20log0.214 = -13.39dB

#### The duration of one cycle



### On time and off time of one signal





of 27 Report No.: POCE-160612312F

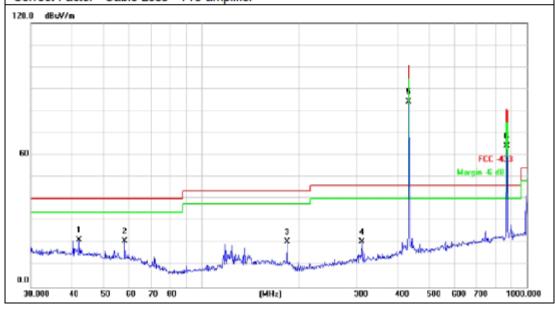
Radiated spurious emission(30M-1GHz)

EUT:	Laser remote controller	Model Name :	SL-OSW-03
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastas Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
44.33	30.85	-8.83	22.02	40	-17.98	QP
58.51	43.82	-11.96	31.86	40	-8.14	QP
185.32	38.74	-14.11	24.63	43.5	-18.87	QP
314.13	38.77	-13.9	24.87	43.5	-18.63	QP
433.92	98.87	-9.37	89.50	100.8	-11.30	PK
867.84	68.21	-2.05	66.16	80.8	-14.64	PK

Remark

Factor = Antenna Factor + Correct Factor. Correct Factor= Cable Loss – Pre-amplifier





Test Mode :

EUT: Laser remote controller Model Name: SL-OSW-03

Temperature: 20 °C Relative Humidity: 48%

Pressure: 1010 hPa Test Voltage: DC12V

Polarization:

Report No.: POCE-160612312F

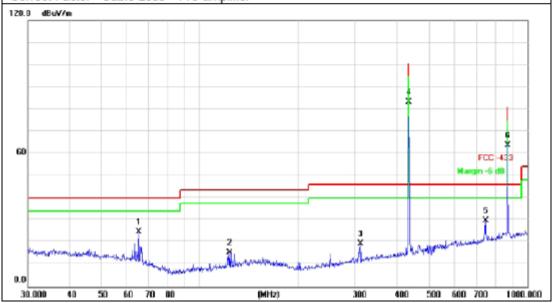
Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastas Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
67.3367	30.85	-8.83	22.02	40	-17.98	QP
130.2153	43.82	-11.96	31.86	40	-8.14	QP
311.5223	38.74	-13.11	25.63	46	-20.37	QP
433.92	98.77	-9.37	89.4	100.8	-11.4	PK
746.821	36.86	-3.37	32.54	46	-13.46	QP
867.84	66.21	-2.05	64.16	80.8	-16.64	PK

Remark:

Factor = Antenna Factor + Correct Factor. Correct Factor= Cable Loss – Pre-amplifier

Mode 2





Radiated spurious emission(1G-10<sup>th</sup>harmonics)

EUT:	Laser remote controller	Model Name :	SL-OSW-03
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC12V
Test Mode :	TX	Polarization :	Horizontal

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	State
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	State
433.92	-13.39	89.4	76.01	100.82	80.82	pass
867.84	-13.39	64.16	50.77	80.82	60.82	pass
1311.75	-13.39	65.36	51.97	74.00	54.00	pass
1745.63	-13.39	63.87	50.48	80.82	60.82	pass
			1	74.00	54.00	pass
				74.00	54.00	pass

EUT:	Laser remote controller	Model Name :	SL-OSW-03
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC12V
Test Mode :	TX	Polarization :	Vertical

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	State
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	State
433.92	-13.39	89.5	76.11	100.82	80.82	pass
867.84	-13.39	66.16	52.77	80.82	60.82	pass
1312.65	-13.39	65.21	51.82	74.00	54.00	pass
1745.56	-13.39	63.54	50.15	80.82	60.82	pass
				74.00	54.00	pass
				74.00	54.00	pass

#### Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. \*: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.



Page 23 of 27 Report No.: POCE-160612312F

3. FCC Limit for Average Measurement = 41.6667(433.92) – 7083.3333 = 10996.68uV/m =80.82dBuV/m
4.PK Field Strength -Average factor =AV Field Strength



#### 4. BANDWIDTH TEST

#### **4.1 TEST PROCEDURE**

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Limit: 433.92MHz\*0.25%=1.08MHz

#### 4.2 DEVIATION FROM STANDARD

No deviation.

#### 4.3 TEST SETUP

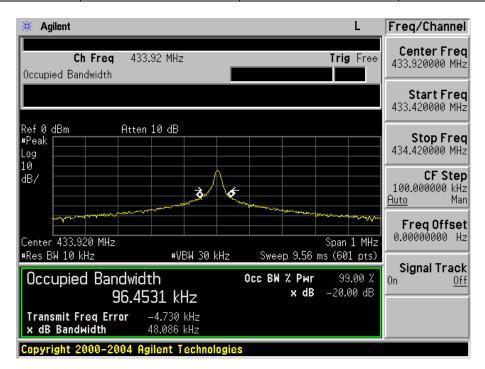
EUT	SPECTRUM
	ANALYZER



#### **4.4 TEST RESULTS**

EUT:	Laser remote controller	Model Name :	SL-OSW-03
Temperature :	<b>26</b> ℃	Relative Humidity:	53%
Pressure :	1020 hPa	Test Power :	DC 12V
Test Mode :	TX CH 1		

Test Channel	Frequency	20 dBc Bandwidth	Limit
root onamio	(MHz)	(kHz)	(kHz)
CH01	433.92	48.086	1084.8





5. PERIODIC RATE EXCEEDING

#### **5.1 REQUIREMENTS**

According to FCC 15.231(a) requirement:

- (1)A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

#### **5.2 TEST PROCEDURE**

- (1) Connect the EUT to the Spectrum and Power on.
- (2) Set center frequency of spectrum analyzer = operating frequency.
- (3) Set the spectrum analyzer as RBW=100kHz, VBW=100kHz, Span=0Hz, Adjust Sweep=130s.
- (4) Record the duration time

#### **5.3 TEST SETUP**

FUT	SPECTRUM
LOT	ANALYZER

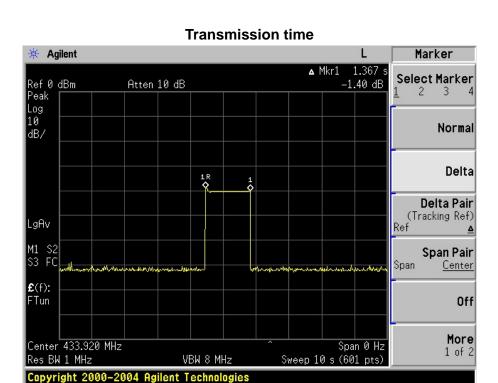
#### **5.4 TEST RESULTS**

EUT:	Laser remote controller	Model Name :	SL-OSW-03
Temperature:	<b>26</b> ℃	Relative Humidity:	53%
Pressure :	1020 hPa	Test Power :	DC 3.7V
Test Mode :	TX		

Frequency(MHz)	Transmission time(s)
433.92	1.367S
Limit	5s
Result	Pass

.





# According to FCC 15.231(a) requirement:

- (1)A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released OK, see Above test result.
- (2)A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- OK, see Above test result.
- (3)Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individua transmissions, provided the total transmission time does not exceed two seconds per hour.

OK, not exceed more than two seconds per hour for each transmitter