

FCC Test Report

Application No.: HKES130700157101**Applicant:** X-LITE COMPANY LIMITED**Address:**
1D Young Ya Industrial Building
381-389 Sha Tsui Road, Tsuen Wan, N.T.
Hong Kong**Product Information:**

Product Description: Speedlite

Model: ZR45

Product Class : Low Power Communication Device – Transmitter (2.4 GHz)

FCC ID: 2AAKJZR45

Requirement: CFR 47 FCC PART 15 SUBPART C, 2012
- Intentional Radiators.**Date of Receipt:** 2013-07-03**Date of Test:** 2013-07-15 to 2013-08-01**Date of Issue:** 2013-08-02

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

Authorized Signature:

**LOKE Sai Kit, Wilson**
Senior 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 IECC Limited or testing done by SGS IECC Limited in connection with, distribution or use of the product described in this report must be approved by SGS IECC Limited in writing.

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2 Test Summary

Test	Test Requirement	Test Method	Result
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART C: 2012	ANSI C63.4:2009	N/A ¹⁾
Radiated Emission (9kHz to 1GHz)	FCC PART 15, SUBPART C: 2012	ANSI C63.4:2009	PASS
Radiated Emission above 1 GHz	FCC PART 15, SUBPART C: 2012	ANSI C63.4:2009	PASS
Band edge / 20 dB Bandwidth	FCC PART 15, SUBPART C: 2012	ANSI C63.4:2009 Marker-Delta measurement	PASS

Remark :

1) Please refer to section 6.1 of this report for explanation

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4 General Information

4.1 General Description of EUT

EUT Name:	Speedlite
Model:	ZR45
Serial No.:	--

4.2 Details of EUT

Power Supply:	DC 6V (AA battery x4)
Power Cord:	--
Operating Frequency	2431.16MHz
Antenna Type:	Integral antenna (10mm x 15mm on print circuit board)
Modulation Type:	GFSK

4.3 Conditions of EUT

The received sample was under good condition.

4.4 Description of Support Units

The EUT was mounted on camera for testing (Band: Canon, Model: EOS 450D)

4.5 Standards Applicable for Testing

CFR 47, FCC Part 15, Oct 2012
ANSI C63.4:2009

4.6 Test Location

All tests were performed at:

SGS IECC Limited (Member of the SGS Group (SGS SA))

Units 303-305, 3/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480

4.7 Test Facility

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (FCC Registration No. : 97774).

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

FCC – CAB Registration No.: 446297

Measurement facility located at Fanling (Hong Kong), accredited as a Conformity Assessment Body (CAB) and was designated by FCC to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules.

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4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Declaration of Family Grouping

None.

4.11 Abbreviations

N/A: Not Applicable

EUT: Equipment Under Test

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5 Equipments Used during Test

Radiated Emission				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
3m Semi-Anechoic Chamber (pre-test)	--	--	--	--
3m / 10m Open Aera Test Site	--	--	2012-02-24	2015-02-23
Test Receiver	Rohde & Schwarz	ESCS 30 / 100388	2012-11-19	2013-11-18
Spectrum Analyzer 100Hz – 26.5GHz	Advantest	R3273 / 120301765	2013-07-10	2014-07-09
Loop antenna	Rohde & Schwarz	HFH2-Z2	2012-10-11	2014-10-10
Antenna 30-1000MHz	Schaffner	CBL6111C / 2791	2012-10-11	2014-10-10
Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D / 9120D-1070	2012-11-13	2014-11-12
Horn Antenna 15-26.5GHz	Schwarzbeck	BBHA9170 / 9170-492	2012-11-12	2014-11-11
Preamplifier 10MHz – 6GHz	Schwarzbeck	BBV9743 / 9743-052	2012-11-13	2014-11-12
Preamplifier 1-18GHz	Schwarzbeck	BBV9718 / 9718-223	2012-11-13	2014-11-12
Preamplifier 18- 26.5GHz	Schwarzbeck	BBV9719 / 9719-019	2012-11-13	2014-11-12
Coaxial Cable	--	E167	2013-06-26	2014-06-27
RF Cable	HUBER+SUHNER	E207	2012-11-14	2013-11-13
Antenna Mast System	Schwarzbeck	AM9104 / -	--	--
Turntable with Controller	Drehtisch	DT312 / -	--	--
General Use Equipment				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
Digital Multimeter	Fluke	189 / 83640020	2013-04-10	2014-04-09
Temperature / Humidity meter	-	E158	2012-10-15	2013-10-14

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Test Results

6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 C Section 15.207

Test Method: ANSI C63.4:2009

Test Date: Not Applicable

Remark:

The product is battery operated and this test is not applicable.

6.2 Radiated Emissions, 9kHz to 1GHz

Test Requirement: FCC Part15 Subpart C Section 15.209 and 15.249(d)

Test Method: ANSI C63.4:2009

Test Date: 2013-08-01

Measurement Distance: 3m

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 6dB of limit

Limit :

Frequency range MHz	Quasi-peak limits dB (μ V/m)
0.009 – 0.490	-72.4 – 20logF(MHz)
0.490 – 1.705	-12.4 – 20logF(MHz)
1.705 – 30.0	-10.5
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54

Note: 1) At transitional frequencies the lower limit applies.
2) F is the frequency of the spurious emission measured in MHz.
3) Limit from 0.009 – 30 MHz is converted from measuring distance 300m or 30m to 3m with the formula provided in FCC Part 15, section 15.31(f)(2)

6.2.1 EUT Operation

Operating Environment:

Temperature: 24 °C

Humidity: 55%

EUT Operation: Pre-test with Peak detector with the following mode(s):

1. Wireless multiple flash mode.

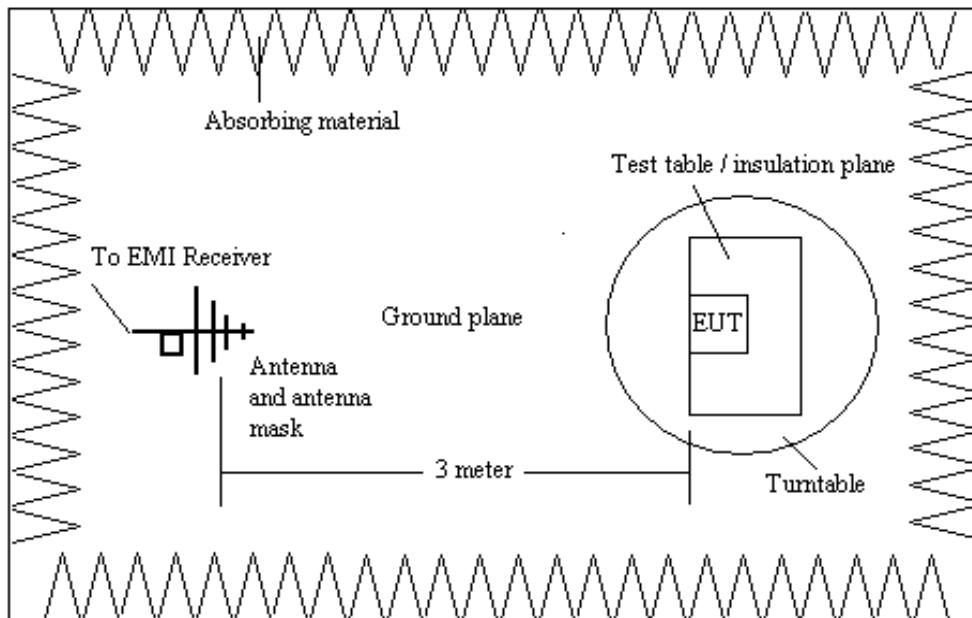
Final test with Quasi-Peak detector with the following mode(s):

1. Wireless multiple flash mode.

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6.2.2 Test Setup and Procedure



1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
2. The EUT was operated with new batteries. The EUT was placed upon a non-metallic table 0.8m above the ground reference plane.
3. Loop antennat and Bilog antenna was used for the frequency range from the lowest generated frequency to 30MHz and 30MHz to 1GHz respectively
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters for Bilog antenna (Loop antenna is still maintain in 1m hight) in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

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6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 6dB of the limit line. Final measurement was conducted in the open area test site with data as follows:

Test results on operation with control for transmission mode:

Operation Frequency : 2431.16 MHz

Frequency (MHz)	Antenna Polarization	Correction Factor (dB/m)	Receiver QP Reading (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)
30.875	V	19.0	3.5	22.5	40.0	-17.5
36.125	V	17.0	3.4	20.4	40.0	-19.6
81.000	V	9.1	6.6	15.7	40.0	-24.3
135.000	V	11.7	13.7	25.4	40.0	-14.6
214.875	V	9.9	23.4	33.3	40.0	-6.7
280.938	V	13.7	10.4	24.1	47.0	-22.9

Note:

- 1) All readings are Quasi-Peak values.
- 2) Correction Factor = Antenna Factor + Cable Loss.
- 3) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively.
- 4) Other emissions more than 20dB below the limit are not shown on the above table and only worst six emissions below 1GHz are listed.

6.3 Radiated Emissions above 1 GHz

Test Requirement: FCC Part15 Subpart C Section 15.209 & 15.249(a) & (d)
Test Method: ANSI C63.4:2009
Test Date: 2013-08-01
Frequency Range: 1GHz – 26GHz
Measurement Distance: 3m
Detector: Peak for pre-scan (1MHz resolution bandwidth)
Average and Peak detector for final test

Limit :

Fundamental Frequency :

Frequency range MHz	Limits (Peak) dB (μ V/m)	Limits (Average) dB (μ V/m)
2400 to 2483.5	114	94

Spurious Emission :

Frequency range MHz	Limits (Peak) dB (μ V/m)	Limits (Average) dB (μ V/m)
Over 1000	74	54

6.3.1 EUT Operation

Operating Environment:

Temperature: 24 °C Humidity: 55 %

EUT Operation: Pre-test with Peak detector with the following mode(s):

1. Wireless multiple flash mode.

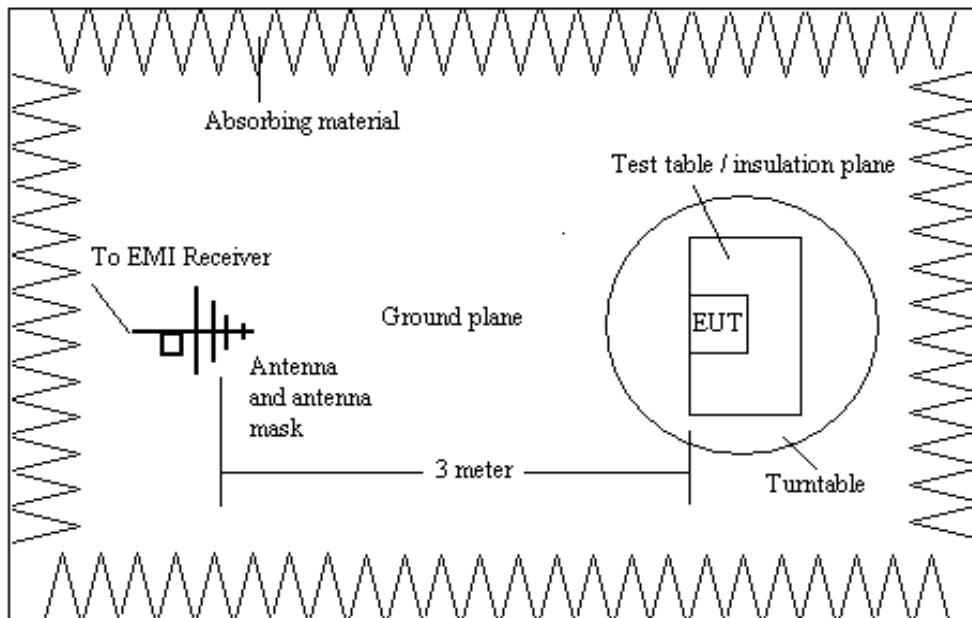
Final test with Average and Peak detector with the following mode(s):

1. Wireless multiple flash mode.

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6.3.2 Test Setup and Procedure



1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
2. The EUT was operated with new batteries. The EUT was placed upon a non-metallic table 0.8m above the ground reference plane.
3. Horn antenna was used for the frequency over 1GHz
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

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6.3.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured with 2 orthogonal polarities and frequencies of average emissions from the EUT were measured as follows:

Test results on operation with control for transmission mode:

(1) Fundamental Frequency

Frequency (MHz)	Antenna Polarization	Emission Level (dB μ V/m)		Limit (dB μ V/m)		Remark
		Peak	Average	Peak	Average	
2431.16	H	80.05	34.22	114	94	Pass
2431.16	V	83.32	35.13	114	94	Pass

(2) Spurious Emission

Operation Frequency : 2431.16 MHz

Frequency (MHz)	Antenna Polarization	Emission Level (dB μ V/m)		Limit (dB μ V/m)		Remark
		Peak	Average	Peak	Average	
1500.00	H	34.87	23.42	74	54	Pass
4861.44	H	61.16	32.44	74	54	Pass
6000.00	H	44.12	30.11	74	54	Pass
7000.00	H	46.95	30.92	74	54	Pass
8000.00	H	41.88	30.05	74	54	Pass
10000.00	H	42.23	29.46	74	54	Pass

Note:

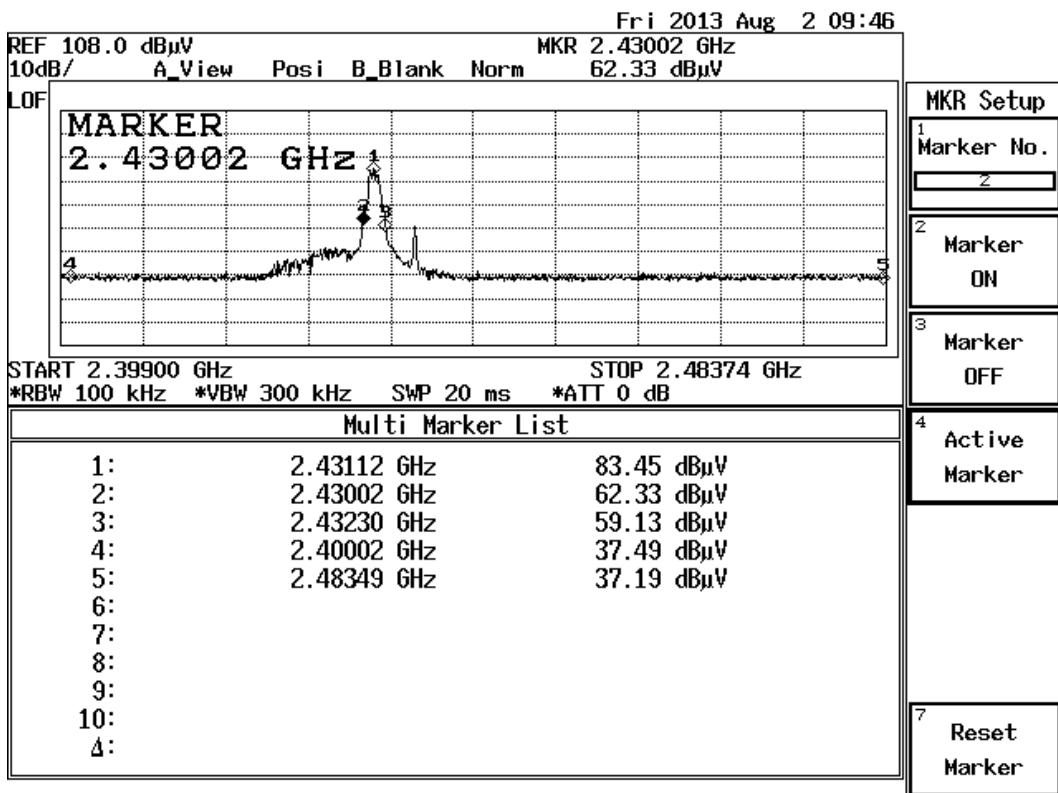
- 1) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively.
- 2) Other emissions more than 20dB below the limit are not shown on the above table and only worst six emissions below 1GHz are listed.

6.4 Band Edge / 20 dB Bandwidth

Test Requirement: FCC Part15 Subpart C Section 15.215, 15.249(d)
Test Method: ANSI C63.4:2009 and Marker-Delta Method
Test Date: 20-13-08-01
Result: Pass

Test Plot :

Operation frequency : 2431.16 MHz



According to the page 12 of this report, the emission of the fundamental frequency 2431.16MHz is 83.32dBuV/m and 35.13dBuV/m for peak and average level respectively. Based on the delta method, the emission at the bandedge, 2400MHz and 2483.5, is more than 30dB below the fundamental and 20dB bandwidth falls in assigned band. It is deemed to comply with section 15.215. Besides, it is below the limit of 74dBuV/m and 54dBuV/m for peak and average level under 15.209. It is deemed to comply with section 15.249(d).

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6 Photographs

7.1 EUT Constructional Details



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