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Applicant: Ewig Industries Macao Commercial Offshore Limited

Avenida Da Praia Grande No. 619, EDF. Comercial Si Toi L6,

Macau

Manufacturer: DONG GUAN Q&S ELECTRONIC MANUFACTURING

COMPANY LIMITED

Yin Chan Industrial District, Fu Gang Village, Xiang Mang West Road, Qing Xi Town, Dongguan City, Guang Dong Province,

China

Description of Sample(s): Product: BioLite FirePit

Brand Name: BioLite
Model Number: FPB
FCC ID: N9ZFPB

Date Sample(s) Received: 2018-01-18

Date Tested: 2018-02-28 to 2018-03-05

Investigation Requested: Perform ElectroMagnetic Interference measurement in accordance

with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 and

ANSI C63.10:2013 for FCC Certification.

Conclusion(s): The submitted product <u>COMPLIED</u> with the requirements of

Federal Communications Commission [FCC] Rules and

Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test

Report.

Remark(s): ----

CHEUNG Chi, Kenneth Chapter Signatory

ElectroMagnetic Compatibility Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.



Date : 2018-03-15 **Page 2 of 27** : HM18010001 No. **CONTENT:** Cover Page 1 of 27 Content Page 2 of 27 1.0 **General Details** 1.1 Equipment Under Test [EUT] Page 3 of 27 Description of EUT operation 1.2 Description of EUT Operation 1.3 Date of Order Page 3 of 27 Page 3 of 27 1.4 Submitted Sample Page 3 of 27 1.5 **Test Duration** 1.6 Country of Origin Page 3 of 27 1.7 Antenna Details Page 3 of 27 2.0 **Technical Details** 2.1 Investigations Requested Page 4 of 27 2.2 Test Standards and Results Summary Page 4 of 27 <u>3.0</u> **Test Results** 3.1 Emission Page 5-21 of 27 Appendix A List of Measurement Equipment Page 21 of 27 Appendix B Photographs Page 22-27 of 27



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1.0 General Details

1.1 Equipment Under Test [EUT] Description of Sample(s)

Product: BioLite FirePit

Manufacturer: DONG GUAN Q&S ELECTRONIC MANUFACTURING COMPANY

LIMITED

Yin Chan Industrial District, Fu Gang Village, Xiang Mang West Road,

Qing Xi Town, Dongguan City, Guang Dong Province, China

Brand Name: BioLite
Additional Brand Name EWIG
Model Number: FPB
Additional Model Number: BIO006

Rating: 120Va.c, 5Vd.c (Powered by USB)

Li-ion Rechargeable Battery x1 = 3.7Vd.c

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is BioLite FirePit, which is 2.4GHz transceiver. (Bleutooth LE only) The transmission signal is digital modulated with channel frequency range 2402-2480MHz. The R.F. signal was modulated by IC.

1.3 Date of Order

2018-01-18

1.4 Submitted Sample(s):

2 Samples

1.5 Test Duration

2018-02-28 to 2018-03-05

1.6 Country of Origin

China

1.7 Antenna Details

Antenna Type (Bluetooth): Embedded BLE antenna

Antenna Gain (Bluetooth): -1.5dBi



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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 Regulations and ANSI C63.10:2013 for FCC Certification.

2.2 Test Standards and Results Summary Tables

	EMISSION Results Summary							
Test Condition	Test Requirement	Test Method	Class /	Test I	Result			
			Severity	Pass	Fail			
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.10:2013	N/A					
AC power-line conducted emissions	FCC 47CFR 15.207	ANSI C63.10:2013	N/A	\boxtimes				
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10:2013	N/A					

Note: N/A - Not Applicable



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3.0 Test Results

3.1 Emission

3.1.1 Field Strength of Fundamental & Harmonics Emissions

Test Requirement: FCC 47CFR 15.249
Test Method: ANSI C63.10:2013

Test Date: 2018-02-28 Mode of Operation: TX mode

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

Remark: 3 orthogonal axis apply to hand-held device only.

*: Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. FCC Test Firm Registration Number <u>723883</u>
Designation Number <u>HK0001</u>



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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av) RBW: 10kHz

VBW: 30kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

30MHz - 1GHz (QP) RBW: 120kHz

VBW: 120kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

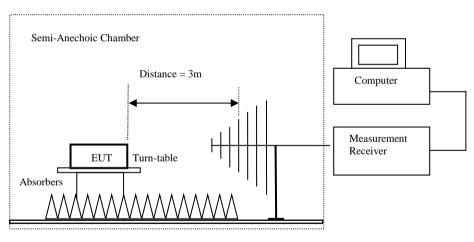
Above 1GHz (Pk & Av) RBW: 3MHz

VBW: 3MHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

Test Setup:



Ground Plane

Absorbers placed on top of the ground plane are for measurements above 1000MHz only.



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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Fundamental frequency [MHz]	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

Result of TX mode (FSK) (Lowest Channel), (Above 1GHz): Pass

Res	Result of 1A mode (FSK) (Lowest Channel), (Above 1GHz): Pass									
	Field Strength of Fundamental and Harmonics Emissions									
				Peak Value						
F	requency	Measured	Correction	Field	Field	Limit @3m	E-Field			
		Level @3m	Factor	Strength	Strength		Polarity			
	MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$				
	2402.0	49.3	27.9	77.2	7,244.4	500,000	Vertical			
*	4804.0	8.7	32.1	40.8	109.6	5,000	Vertical			
	7206.0	2.3	38.6	40.9	110.9	5,000	Vertical			
	9608.0					5,000	Vertical			
*	12010.0					5,000	Vertical			
	14412.0					5,000	Vertical			
	16814.0	Е	missions detec	cted are more	than	5,000	Vertical			
*	* 19216.0 20 dB below the FCC Limits					5,000	Vertical			
	21618.0						Vertical			
	24020.0					5,000	Vertical			

	Field Strength of Fundamental and Harmonics Emissions								
		Α	Average Valu	e					
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$				
2402.0	41.8	27.9	69.7	3,054.9	50,000	Vertical			
* 4804.0	2.3	32.1	34.4	52.5	500	Vertical			
7206.0	-1.2	38.6	37.4	74.1	500	Vertical			
9608.0					500	Vertical			
* 12010.0					500	Vertical			
14412.0					500	Vertical			
16814.0	Е	missions detec	cted are more	than	500	Vertical			
* 19216.0	.0 20 dB below the FCC Limits 500								
21618.0		500	Vertical						
24020.0					500	Vertical			



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Result of TX mode (FSK) (Middle Channel), (Above 1GHz): Pass

ILCS	tesuit of TA mode (FSE) (Middle Chainer), (Above 1912). Lass								
	Field Strength of Fundamental and Harmonics Emissions								
				Peak Value					
F	requency	Measured	Correction	Field	Field	Limit @3m	E-Field		
		Level @3m	Factor	Strength	Strength		Polarity		
	MHz	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
	2440.0	47.4	27.9	75.3	5,821.0	500,000	Vertical		
*	4880.0	8.7	32.1	40.8	109.6	5,000	Vertical		
*	7320.0	2.4	38.6	41.0	112.2	5,000	Vertical		
	9760.0					5,000	Vertical		
*	12200.0					5,000	Vertical		
	14640.0					5,000	Vertical		
	17080.0	Е	missions detec	cted are more	than	5,000	Vertical		
*	19520.0		5,000	Vertical					
	21960.0						Vertical		
	24400.0					5,000	Vertical		

	Field Strength of Fundamental and Harmonics Emissions							
		A	Average Valu	e				
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
2440.0	45.1	27.9	73.0	4,466.8	50,000	Vertical		
* 4880.0	2.4	32.1	34.5	53.1	500	Vertical		
* 7320.0	-1.4	38.6	37.2	72.4	500	Vertical		
9760.0					500	Vertical		
* 12200.0					500	Vertical		
14640.0					500	Vertical		
17080.0	Е	missions detec	cted are more	than	500	Vertical		
* 19520.0	20 dB below the FCC Limits 500							
21960.0	500 Vertic							
24400.0					500	Vertical		



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Result of TX mode (FSK) (Highest Channel), (Above 1GHz): Pass

Result of 1A mode (FSK) (Hignest Channel), (Above 1GHz): Pass									
	Field Strength of Fundamental and Harmonics Emissions								
			Peak Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$				
2480.0	48.6	27.9	76.5	6,683.4	500,000	Vertical			
* 4960.0	10.4	32.1	42.5	133.4	5,000	Vertical			
* 7440.0	1.9	1.9 38.6 40.5 105.9		5,000	Vertical				
9920.0					5,000	Vertical			
* 12400.0					5,000	Vertical			
14880.0					5,000	Vertical			
17360.0	E	missions dete	5,000	Vertical					
* 19840.0		20 dB below	5,000	Vertical					
22320.0	22320.0					Vertical			
24800.0					5,000	Vertical			

	Field Strength of Fundamental and Harmonics Emissions								
		A	Average Valu	e					
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$				
2480.0	40.5	27.9	68.4	2,630.3	50,000	Vertical			
* 4960.0	2.2	32.1	34.3	51.9	500	Vertical			
* 7440.0	-1.4	38.6	37.2	72.4	500	Vertical			
9920.0					500	Vertical			
* 12400.0					500	Vertical			
14880.0					500	Vertical			
17360.0	E	missions detec	cted are more	than	500	Vertical			
* 19840.0	20 dB below the FCC Limits 500 V								
22320.0		500	Vertical						
24800.0					500	Vertical			

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 9kHz to 30MHz 2.4dB 30MHz to 18GHz 5.0dB



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3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207 Test Method: ANSI C63.10:2013

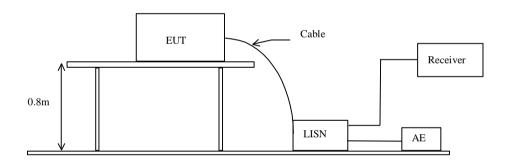
Test Date: 2018-03-05

Mode of Operation: Tx mode

Test Method:

The test was performed in accordance with ANSI C63.10:2013, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:





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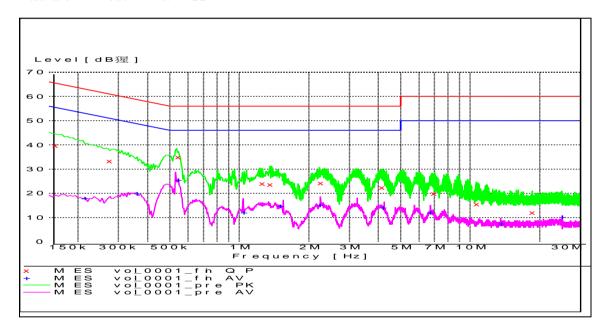
Limit for Conducted Emissions (FCC 47CFR 15.207):

Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

^{*} Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Tx mode - Live: PASS





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MEASUREMENT RESULT: "vol 0001 fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.160000	39.70	9.9	66	25.8	L1	GND
0.275000	33.20	9.9	61	27.8	L1	GND
0.545000	34.90	10.0	56	21.1	L1	GND
1.260000	24.00	9.9	56	32.0	L1	GND
1.365000	23.50	9.9	56	32.5	L1	GND
2.255000	24.10	10.2	56	31.9	L1	GND
4.155000	22.30	10.5	56	33.7	L1	GND
6.985000	19.80	10.6	60	40.2	L1	GND
10.705000	15.50	10.4	60	44.5	L1	GND
18.650000	12.00	10.7	60	48.0	L1	GND

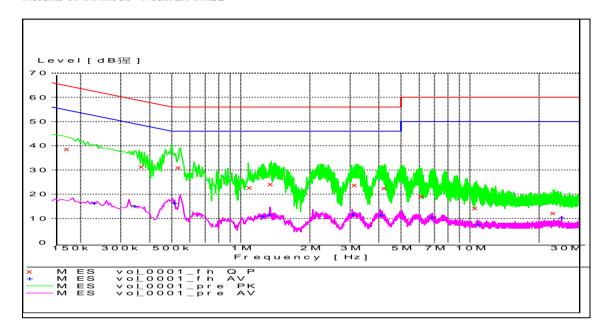
MEASUREMENT RESULT: "vol 0001 fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.215000	18.00	9.9	53	35.0	L1	GND
0.360000	19.90	10.0	49	28.8	L1	GND
0.545000	25.40	10.0	46	20.6	L1	GND
1.050000	11.90	9.8	46	34.1	L1	GND
1.510000	14.70	10.0	46	31.3	L1	GND
2.245000	15.20	10.2	46	30.8	L1	GND
4.205000	14.00	10.5	46	32.0	L1	GND
6.750000	12.10	10.6	50	37.9	L1	GND
13.680000	7.50	10.7	50	42.5	L1	GND
25.060000	10.20	10.8	50	39.8	L1	GND



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Results of Tx mode -Neutral: PASS





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MEASUREMENT RESULT: "vol 0001 fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.175000	38.70	9.9	65	26.0	N	GND
0.370000	31.40	10.0	59	27.1	N	GND
0.535000	31.10	10.0	56	24.9	N	GND
1.095000	22.70	9.8	56	33.3	N	GND
1.350000	24.10	9.9	56	31.9	N	GND
3.145000	23.80	10.4	56	32.2	N	GND
4.230000	22.50	10.5	56	33.5	N	GND
6.160000	19.20	10.6	60	40.8	N	GND
10.565000	14.40	10.4	60	45.6	N	GND
23.110000	12.20	10.9	60	47.8	N	GND

MEASUREMENT RESULT: "vol 0001 fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PΕ
MHz	dΒμV	dB	dΒμV	dB		
0.230000	16.40	9.9	52	36.0	N	GND
0.345000	15.10	10.0	49	34.0	N	GND
0.515000	16.30	10.0	46	29.7	N	GND
1.245000	10.90	9.9	46	35.1	N	GND
1.335000	11.60	9.9	46	34.4	N	GND
3.090000	11.60	10.4	46	34.4	N	GND
4.090000	11.50	10.5	46	34.5	N	GND
6.835000	10.30	10.6	50	39.7	N	GND
10.870000	7.70	10.4	50	42.3	N	GND
25.060000	10.30	10.8	50	39.7	N	GND

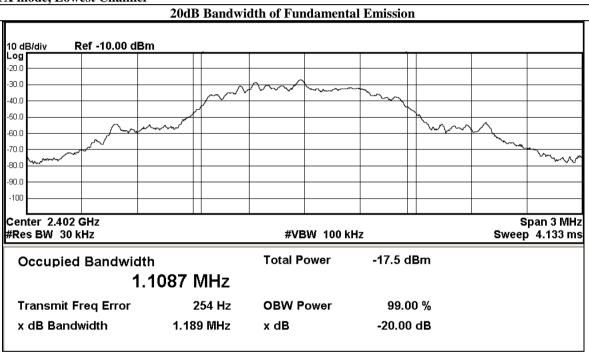


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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [MHz]
2402.0	1.19

TX mode, Lowest Channel

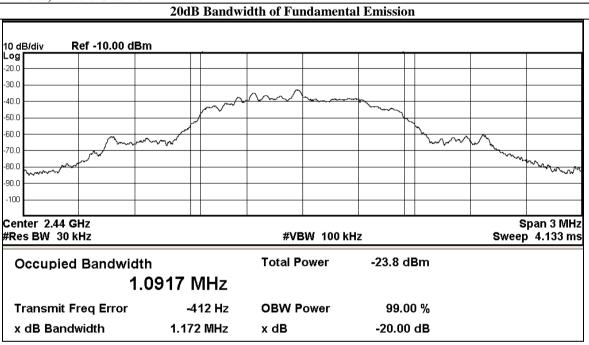




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Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2440.0	1.17

TX mode, Middle Channel

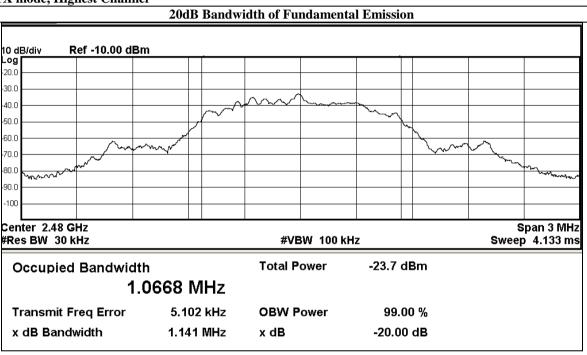




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Frequency Range [MHz]	20dB Bandwidth [MHz]
2480.0	1.14

TX mode, Highest Channel



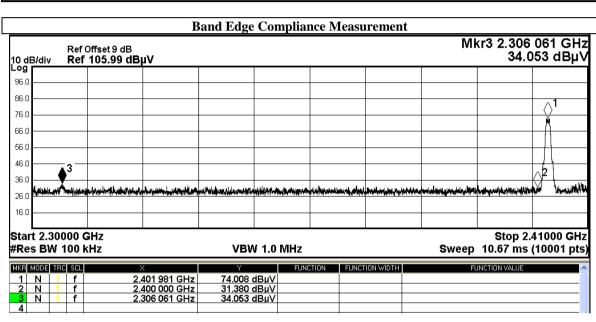


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Band Edge Measurement:

TX mode

Frequency Range	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
2400MHz – Lowest Fundamental	42.6



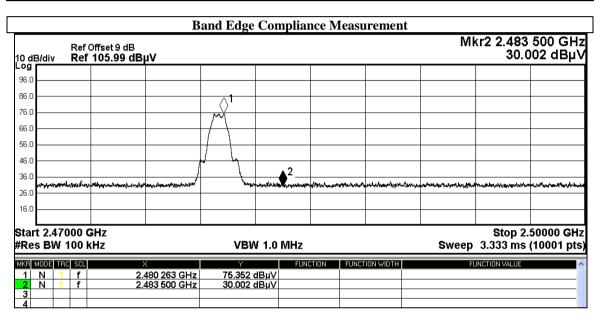


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Band Edge Measurement:

TX mode

Frequency Range	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
Highest Fundamental – 2483.5MHz	45.4



Result of TX mode FSK, Band-edge measurement: PASS

Field Strength of Fundamental and Harmonics Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	$dB\mu V/m$	dBμV/m	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
2306.1	5.4	27.6	33.0	44.7	5,000	Vertical
2484.0	3.4	28.0	31.4	37.2	5,000	Vertical

Field Strength of Fundamental and Harmonics Emissions Average Value							
Frequency Measured Correction Field Field Limit @3m E-Field							
1	Level @3m	Factor	Strength	Strength		Polarity	
MHz	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	μV/m	μV/m	•	
2306.1	-0.3	27.6	27.3	23.2	500	Vertical	
2484.0	-0.7	28.0	27.3	23.2	500	Vertical	



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Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Tx mode, (9kHz - 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Result of Tx mode, (30MHz - 1GHz): PASS

Field Strength of Fundamental and Harmonics Emissions								
	Quasi-Peak Value							
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field							
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$			
43.6	24.0	9.0	33.0	44.7	100	Vertical		
86.0	18.0	7.0	25.0	17.8	150	Vertical		
314.0	22.9	13.6	36.5	66.8	150	Vertical		
86.0	21.1	7.2	28.3	26.0	200	Horizontal		
347.1	25.0	15.7	40.7	108.4	200	Horizontal		
757.9	17.9	22.6	40.5	105.9	200	Horizontal		



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Appendix A

LIST OF MEASUREMENT EQUIPMENT

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3		2017/04/20	2018/04/20
EM355	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00094856	2017/02/29	2019/02/29
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2017/06/15	2018/06/15
EM299	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS-LINDGREN	3115	00114120	2016/04/27	2018/04/27
EM302	PRECISION OMNIDIRECTIONAL DIPOLE (1 – 6GHZ)	SEIBERSDORF LABORATORIES	POD 16	161806/L	2016/05/11	2018/05/11
EM303	PRECISION OMNIDIRECTIONAL DIPOLE (6 – 18GHZ)	SEIBERSDORF LABORATORIES	POD 618	6181908/L	2016/05/11	2018/05/11

Remarks:

CM Corrective Maintenance

N/A Not Applicable or Not Available

TBD To Be Determined

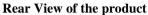


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Appendix B

Photographs of EUT







Rear View of the product



Rear View of the product



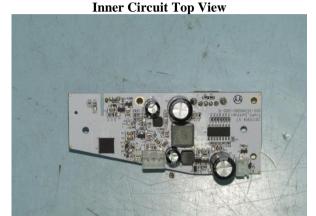


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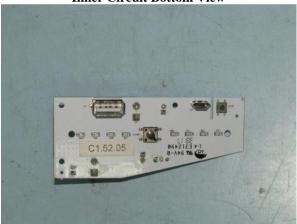
Photographs of EUT

Inner View of the product





Inner Circuit Bottom View





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Photographs of EUT

Measurement of Radiated Emission Test Set Up (9kHz to 30MHz)



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Photographs of EUT

Measurement of Radiated Emission Test Set Up (30MHz to 1000MHz)



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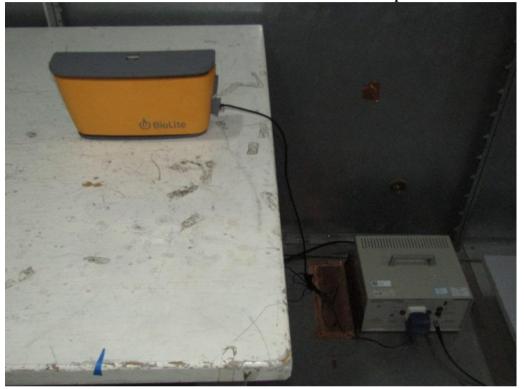
Photographs of EUT

Measurement of Radiated Emission Test Set Up (Above 1000MHz)



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Measurement of Conducted Emission Test Set Up



***** End of Test Report *****

Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by the Company as a result of this application for testing service (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. The Report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
- 5. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 6. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 7. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
- 10. Issuance records of the Report are available on the internet at www.stc-group.org. Further enquiry of validity or verification of the Reports should be addressed to the Company.