



Shenzhen Certification Technology Service Co., Ltd
2F, Building B, East Area of Nanchang Second Industrial
Zone, Gushu 2nd Road, Bao'an District, Shenzhen
518126, P.R. China.

TEST REPORT

FCC ID: P9M-ATLAS

Applicant : Phottix (HK) Ltd.
Address : 10/F Block A, Yip Fat Factory Building, Phase 1, 77 Hoi Yuen Rd, Kwun Tong, Kln, Hong Kong

Equipment under Test (EUT):

Name : Phottix Atlas II 2.4 GHz Flash Trigger
Model : Atlas II

Standards : FCC PART 15, SUBPART C : 2011 (Section 15.249)

Report No. : STE120725952

Date of Test : August 1-5, 2012

Date of Issue : August 6, 2012

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu)
General Manager

The manufacture should ensure that all the 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 Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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1 General Information

1.1 Description of Device (EUT)

Trade Name	: Phottix
EUT	: Phottix Atlas II 2.4 GHz Flash Trigger
Model No.	: Atlas II
Type of Antenna	: Integral Antenna
Antenna Specification	: 0 dBi
Operation Frequency	: 2464MHz
Channel number	: 1 (4 channels of the same frequency, just not the same encoding)
Modulation type	: GFSK
Power Supply adapter	: DC 3V form battery or DC 5V form adapter : Manufacturer: Phottix (HK) Ltd. : Model:TKY-003-0510-120
Applicant	: Phottix (HK) Ltd.
Address	: 10/F Block A, Yip Fat Factory Building, Phase 1, 77 Hoi Yuen Rd, Kwun Tong, Kln, Hong Kong
Manufacturer	: Phottix (HK) Ltd.
Address	: 10/F Block A, Yip Fat Factory Building, Phase 1, 77 Hoi Yuen Rd, Kwun Tong, Kln, Hong Kong

1.2 Description of Test Facility

Shenzhen Certification Technology Service Co., Ltd.
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 FCC Registered No.:197647

2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	06/06/2011	1Year
Spectrum analyzer	Agilent	E4443A	MY46185649	06/06/2011	1Year
Receiver	R&S	ESCI	100492	04/06/2011	1Year
Receiver	R&S	ESCI	101202	07/01/2012	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	VULB9168-438	04/06/2011	1Year
L.I.S.N.	SCHWARZBECK	NSLK8126	8126466	16/06/2011	1Year
Loop Antenna	R&S	FMZB1516	1516131	04/06/2011	1Year
ETS Horn Antenna	ETS	3160	SEL0076	12/08/2011	1Year
Cable	Resenberger	N/A	No.1	04/06/2011	1Year
Cable	SCHWARZBECK	N/A	No.2	04/06/2011	1Year
Cable	SCHWARZBECK	N/A	No.3	04/06/2011	1Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	06/06/2011	1Year
Pre-amplifier	R&S	AFS33-18002650-30-8P-44	SEL0080	06/06/2011	1Year

3 Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 μ H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS

33.20 dBuV + 10.36 dB + 0.9 dB= 44.46 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

4 Summary of Measurement

4.1 Summary of test result

Test Item	Test Requirement	Standard Paragraph	Result
Spurious Emission	FCC PART 15: 2011	Section 15.249&15.209	Compliance
Conduction Emission	FCC PART 15: 2011	Section 15.207	Not applicable
Occupied bandwidth	FCC PART 15: 2011	Section 15.249	Compliance
Band edge Requirement	FCC PART 15: 2011	Section 15.249	Compliance
Antenna Requirement	FCC PART 15: 2011	Section 15.203	Compliance

Note: EUT can be powered with inside battery, according to exploratory test, when powered by battery have worse emissions, and also can make sure EUT have enough power for wireless work, so all the final test were performed with new battery.

4.2 Test mode

Tested mode, channel information		
Mode	Channel	Frequency (MHz)
GFSK	CH1	2464

4.3 Block Diagram



4.4 Assistant equipment used for test

Description : N/A
 Manufacturer : N/A
 Model No. : N/A

4.5 Test Conditions

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

4.6 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.50dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.04dB	Polarize: V
	3.02dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	3.84dB	Polarize: H
	3.56dB	Polarize: V
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	3%	
Uncertainty for DC and low frequency voltages	0.06%	

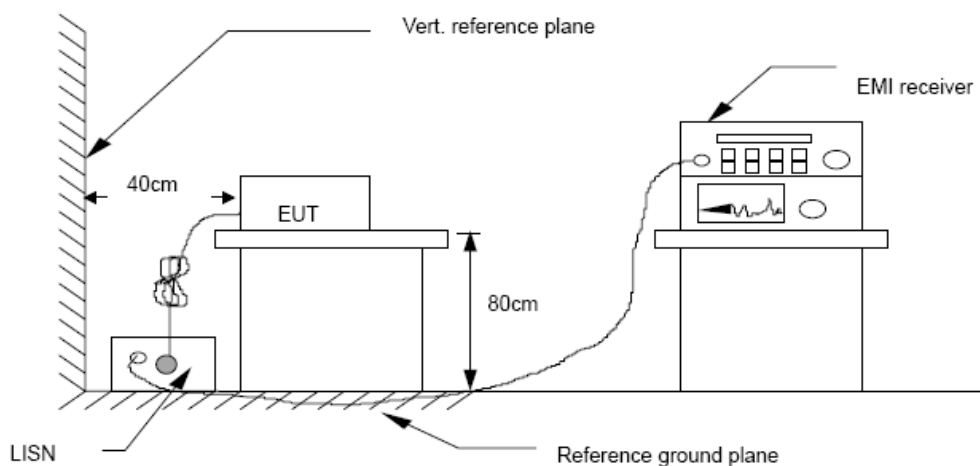
5 POWER LINE CONDUCTED EMISSION

5.1 Conducted Emission Limits(15.209&249)

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

- Notes: 1. *Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

5.2 Test Setup



5.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

5.4 Test Results

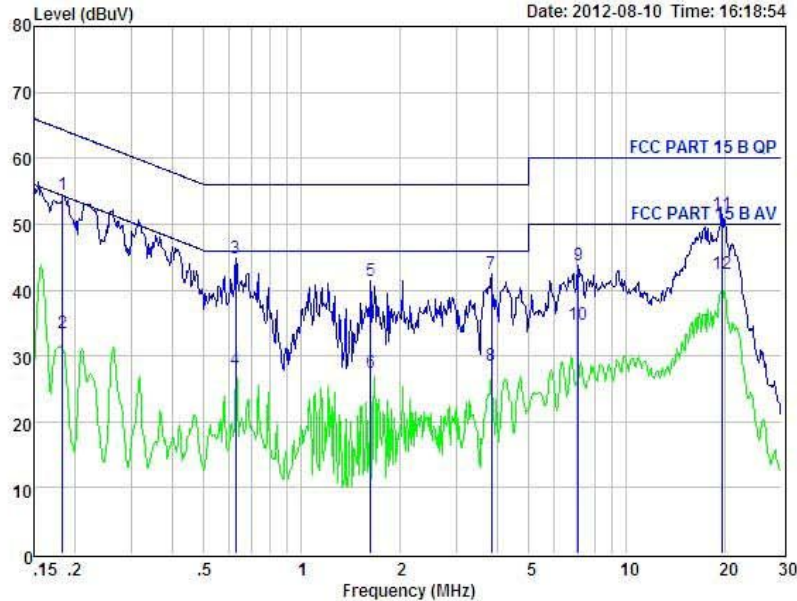
PASS. See below detailed test data.

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Data: 5 File: E:\TEST REPORT\p\Phottix\STE120730983.EM6 (8) Date: 2012-08-10 Time: 16:18:54



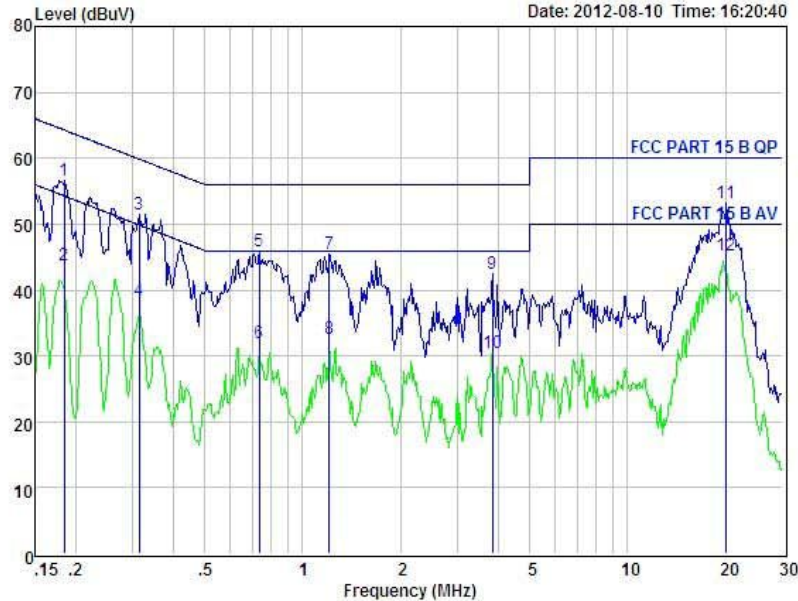
Condition : FCC PART 15 B QP POL: NEUTRAL
 EUI : Phottix Atlas II 2.4 GHz Flash Trigger
 Model No : Atlas II
 Test Mode : Charge
 Power : DC 5V From Adapter With AC 120V/60Hz
 Test Engineer: Store
 Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.183	44.55	0.03	-9.72	0.10	54.40	64.33	-9.93	QP
2	0.183	23.55	0.03	-9.72	0.10	33.40	54.33	-20.93	Average
3	0.627	35.07	0.03	-9.72	0.10	44.92	56.00	-11.08	QP
4	0.627	18.07	0.03	-9.72	0.10	27.92	46.00	-18.08	Average
5	1.628	31.51	0.05	-9.71	0.10	41.37	56.00	-14.63	QP
6	1.628	17.51	0.05	-9.71	0.10	27.37	46.00	-18.63	Average
7	3.840	32.56	0.08	-9.69	0.12	42.45	56.00	-13.55	QP
8	3.840	18.56	0.08	-9.69	0.12	28.45	46.00	-17.55	Average
9	7.100	33.96	0.12	-9.54	0.15	43.77	60.00	-16.23	QP
10	7.100	24.96	0.12	-9.54	0.15	34.77	50.00	-15.23	Average
11	19.740	41.30	0.31	-9.48	0.34	51.43	60.00	-8.57	QP
12	19.740	32.30	0.31	-9.48	0.34	42.43	50.00	-7.57	Average



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Data: 7 File: E:\TEST REPORT\p\Phottix\STE120730983.EM6 (8) Date: 2012-08-10 Time: 16:20:40



Condition : FCC PART 15 B QP POL: LINE
 EUI : Phottix Atlas II 2.4 GHz Flash Trigger
 Model No : Atlas II
 Test Mode : Charge
 Power : DC 5V From Adapter With AC 120V/60Hz
 Test Engineer: Store
 Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.184	46.81	0.03	-9.72	0.10	56.66	64.28	-7.62	QP
2	0.184	33.81	0.03	-9.72	0.10	43.66	54.28	-10.62	Average
3	0.313	41.63	0.03	-9.72	0.10	51.48	59.88	-8.40	QP
4	0.313	28.63	0.03	-9.72	0.10	38.48	49.88	-11.40	Average
5	0.735	36.10	0.04	-9.72	0.10	45.96	56.00	-10.04	QP
6	0.735	22.10	0.04	-9.72	0.10	31.96	46.00	-14.04	Average
7	1.210	35.70	0.04	-9.71	0.10	45.55	56.00	-10.45	QP
8	1.210	22.70	0.04	-9.71	0.10	32.55	46.00	-13.45	Average
9	3.840	32.67	0.08	-9.69	0.12	42.56	56.00	-13.44	QP
10	3.840	20.67	0.08	-9.69	0.12	30.56	46.00	-15.44	Average
11	20.162	43.04	0.31	-9.49	0.35	53.19	60.00	-6.81	QP
12	20.162	35.04	0.31	-9.49	0.35	45.19	50.00	-4.81	Average

6 Radiation Emission

6.1 Radiation Emission Limits(15.209&249 (a))

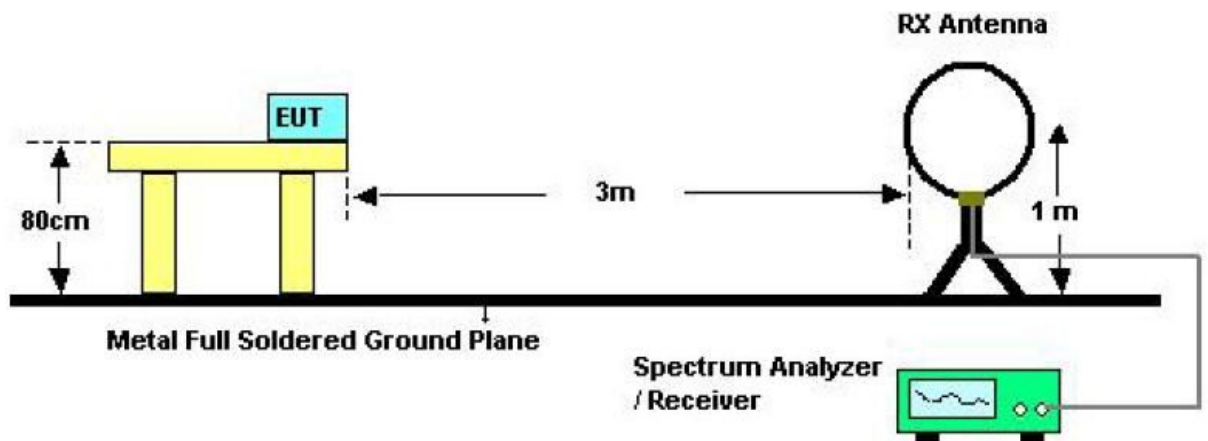
Frequency (MHZ)	Field Strength Limits at 3 metres (watts,e.i.r.p.)		
	uV/m	dB uV/m	Measurement distance(m)
0.009-0.490	2400/F(kHz)	XX	300
0.490-1.705	24000/F(kHz)	XX	30
1.705-30	30	29.5	30
30~88	100(3nW)	40	3
88~216	150(6.8nW)	43.5	3
216~960	200(12nW)	46	3
Above960	500(75nW)	54	3
Carrier frequency		93.97(AV)	3
Carrier frequency		113.97(PK)	3

NOTE:

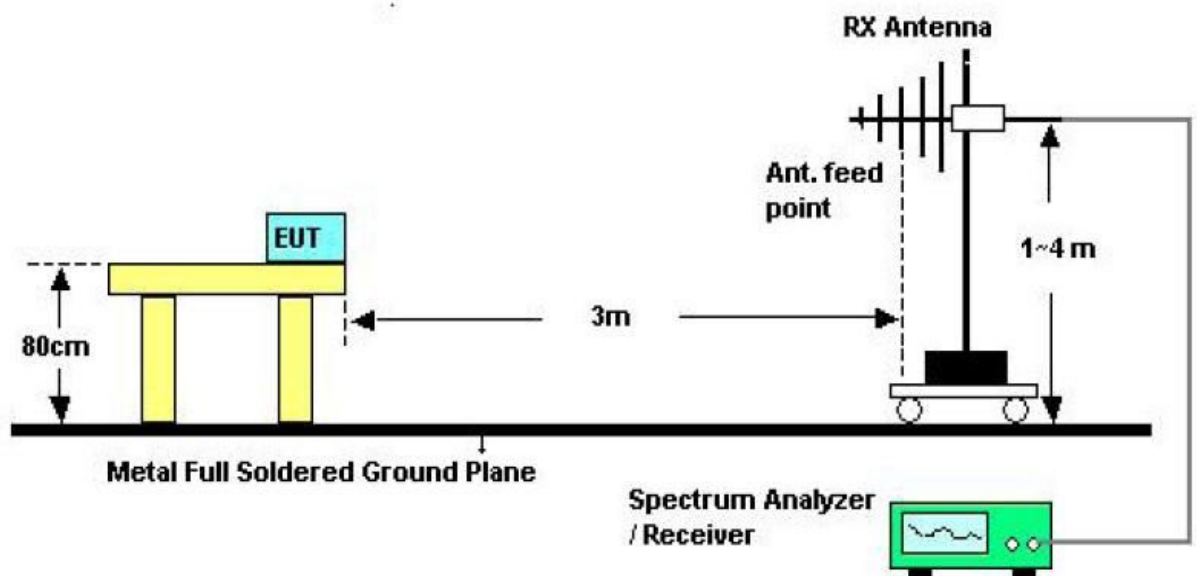
- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(Uv/m)

6.2 Test Setup

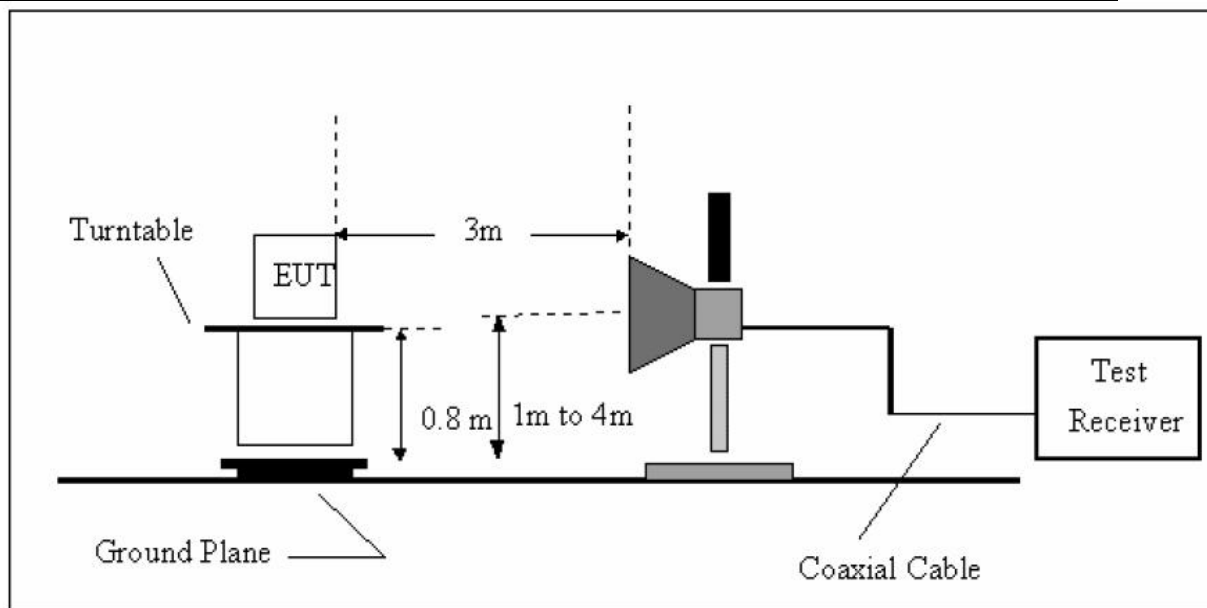
See the next page



Below 30MHZ Test Setup



Above 30MHZ Test Setup



Above 1GHZ Test Setup

6.3 Test Procedure

- a) The measuring distance of 3m shall be used for measurements at frequency up to 1GHZ and above 1GHZ, The EUT was placed on a rotating 0.8 m high above ground,The table was rotated 360 degrees to determine the position of the highest radiation
- b) The Test antenna shall vary between 1m and 4m,Both Horizontal and Vertical antenna are set ot make measurement.
- c) The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range.Signficent Peaks are then marked.and then Qusia Peak Detector mode remeasured
- d) If Peak value comply with QP limit Below 1GHZ.The EUT deemed to comply with QP limit.But the Peak value and average value both need to comply with applicable limit above 1GHZ.
- e) For the actual test configuration,please see the test setup photo.

6.4 Test Equipment Setting For emission test.

9KHZ~150KHZ	RBW 200HZ	VBW1KHZ
150KHZ~30MHZ	RBW 9KHZ	VBW 30KHZ
30MHZ~1GHZ	RBW 120KHZ	VBW 300KHZ
Above 1GHZ	RBW 1MHZ	VBW 3MHZ

6.5 Test Condition

Continual Transmitting in maximum power.

6.6 Test Result

PASS.

We have scanned the 10th harmonic from 9KHz to the EUT.
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: **PASS**

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

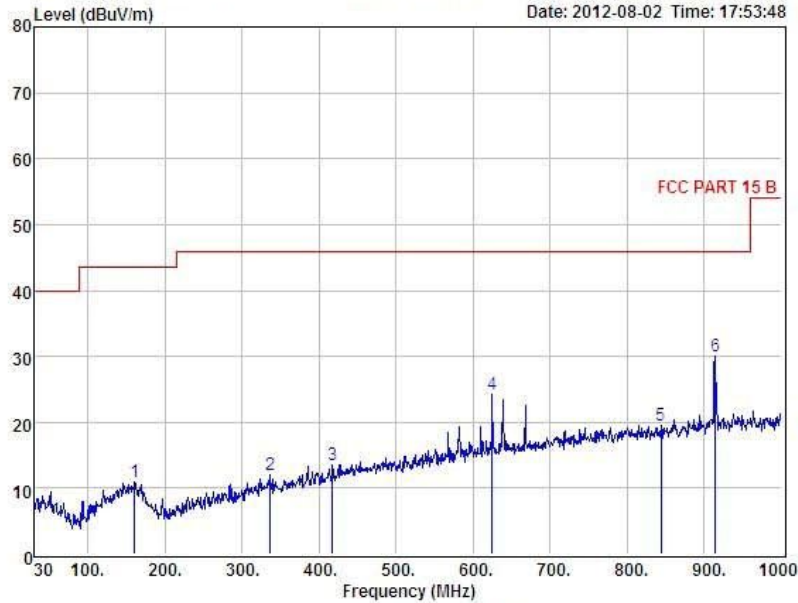
Report No.: STE120725952

Below 1GHZ test data:



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 Website: <http://www.cessz.com> Email: Service@cessz.com

Data: 4 File: E:\REPORT DATA\PI\Phottix\RE.EM6 (5) Date: 2012-08-02 Time: 17:53:48



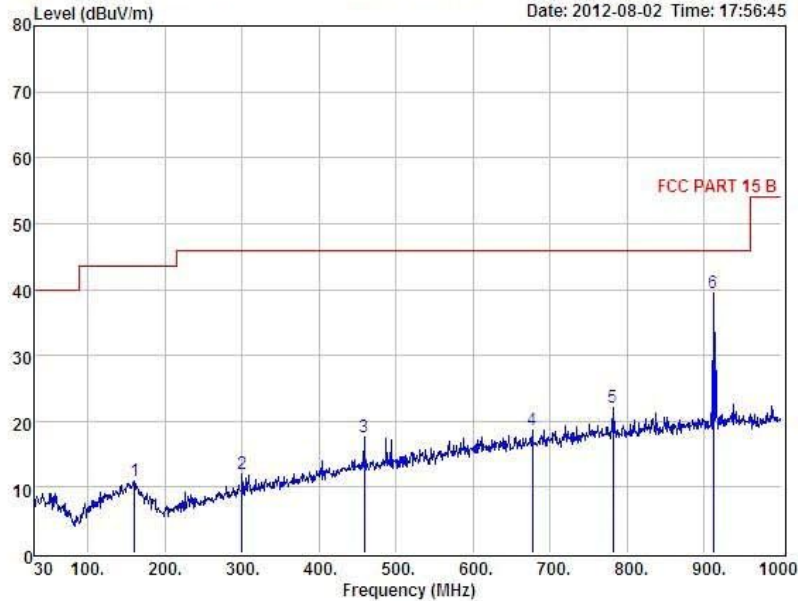
Condition : FCC PART 15 B 3m POL: HORIZONTAL
 EUT : Phottix Atlas II 2.4 GHz Flash Trigger
 Model No : Atlas II
 Test Mode : On
 Power : DC 3V
 Test Engineer : Store
 Remark :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	160.95	26.45	14.14	30.91	1.19	10.87	43.50	-32.63	QP
2	336.52	27.53	13.61	31.25	2.13	12.02	46.00	-33.98	QP
3	417.03	27.30	15.18	31.45	2.56	13.59	46.00	-32.41	QP
4	624.61	34.11	18.76	31.81	3.25	24.31	46.00	-21.69	QP
5	843.83	26.56	21.00	31.70	3.69	19.55	46.00	-26.45	QP
6	914.64	36.00	21.84	31.63	3.83	30.04	46.00	-15.96	QP



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Data: 5 File: E:\REPORT DATA\PI\Phottix\RE.EM6 (5) Date: 2012-08-02 Time: 17:56:45



Condition : FCC PART 15 B 3m POL: VERTICAL
 EUT : Phottix Atlas II 2.4 GHz Flash Trigger
 Model No : Atlas II
 Test Mode : On
 Power : DC 3V
 Test Engineer : Store
 Remark :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	160.95	26.53	14.14	30.91	1.19	10.95	43.50	-32.55	QP
2	299.66	28.54	12.80	31.19	1.93	12.08	46.00	-33.92	QP
3	458.74	30.32	16.06	31.51	2.78	17.65	46.00	-28.35	QP
4	676.99	27.73	19.42	31.77	3.35	18.73	46.00	-27.27	QP
5	781.75	29.70	20.59	31.66	3.56	22.19	46.00	-23.81	QP
6	911.73	45.42	21.79	31.64	3.82	39.39	46.00	-6.61	QP

Notes: --Means other frequency and mode comply with standard requirements and at least have 20dB margin.

Radiated Emissions Result of Inside band (2464MHz)

EUT	Phottix Atlas II 2.4 GHz Flash Trigger	Model Name	Atlas II
Temperature	25°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 3V supply by battery
Test Mode	TX Low	Antenna polarization	Horizontal/Vertical

Channel Low(2464MHz)									
Fre. MHz	Plority H/V	Reading dBuV	Antenna Factor dB	Cable Loss dB	Amplifier Gain dB	Correct Factor dB	Measure Result dBuV/m	Limit dBuV/m	Margin dB
2464	H	103.82 (PK)	12.6	2.03	19.41	-4.78	99.04	113.97	-14.93
2464	H	89.47 (AV)	12.6	2.03	19.41	-4.78	84.69	93.97	-9.28
--	H	--	--	--	--	--	--	--	--
2464	V	99.86 (PK)	12.6	2.03	19.41	-4.78	95.08	113.97	-18.89
2464	V	91.43 (AV)	12.6	2.03	19.41	-4.78	86.65	93.97	-7.32
--	V	--	--	--	--	--	--	--	--

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1281.44	H	49.53	---	-10.96	38.57	---	74.00	54.00	-15.43	Peak
1675.33	H	48.83	---	-9.65	39.18	---	74.00	54.00	-14.82	Peak
1924.88	H	47.72	---	-8.86	38.86	---	74.00	54.00	-15.14	Peak
4928.00	H	41.07	---	0.64	41.71	---	74.00	54.00	-12.29	Peak
N/A										
1547.33	V	48.18	---	-10.14	38.04	---	74.00	54.00	-15.96	Peak
1752.66	V	47.15	---	-9.27	37.88	---	74.00	54.00	-16.12	Peak
2826.44	V	45.24	---	-6.17	39.07	---	74.00	54.00	-14.93	Peak
4928.00	V	41.61		0.64	42.25	---	74.00	54.00	-11.75	Peak
N/A										

Notes: 1 --Means other frequency and mode comply with standard requirements and at least have 20dB margin.

Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain

Measurement Result=Reading + Correct Factor

Margin=Measurement Result-Limit

2 -Spectrum setting:

a. Peak setting 30MHz-1GHz, RBW=120KHz, VBW=300KHz.

b. AV setting 30MHz-1GHz, RBW=1MHz, VBW=10Hz.

7 Occupied bandwidth

7.1 Test limit

Please refer section 15.249

7.2 Method of measurement

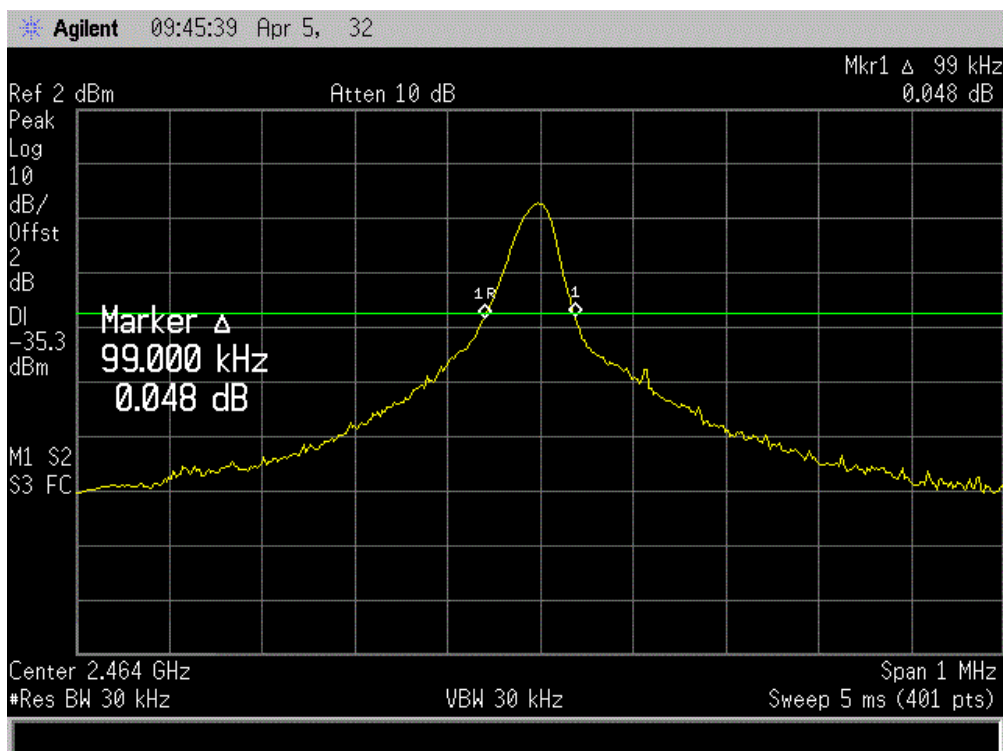
- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver RBW set 30KHZ, VBW set 30KHZ, Sweep time set auto.

7.3 Test Setup



7.4 Test Results

Detailed information please see the following page.



8 Band Edge Check

8.1 Test limit

Please refer section 15.249 and section 15.205.

249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in section 15.209, whichever is the lesser attenuation.

249(e) As shown in section 15.35(b), for frequencies above 1000MHz, the above field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

8.2 Test Procedure

8.2.1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.2. Set spectrum analyzer please see the following test plot.

8.2.3. Set the spectrum analyzer as RBW, VBW=1000 KHz,

8.2.4. Max hold, view and count how many channels in the band.

8.3 Test Setup

Please see the section 6.2, Above 1GHz Test Setup.

8.4 Test Result

The restricted bands are 2310-2390MHz and 2483.5-2500MHz, The EUT operation frequency is 2464MHz, and the 20dB bandwidth is 99KHz, so the test is not applicable.

9 Antenna Requirement

9.1 Standard Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

9.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 0 dBi, and the antenna connector is de- signed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

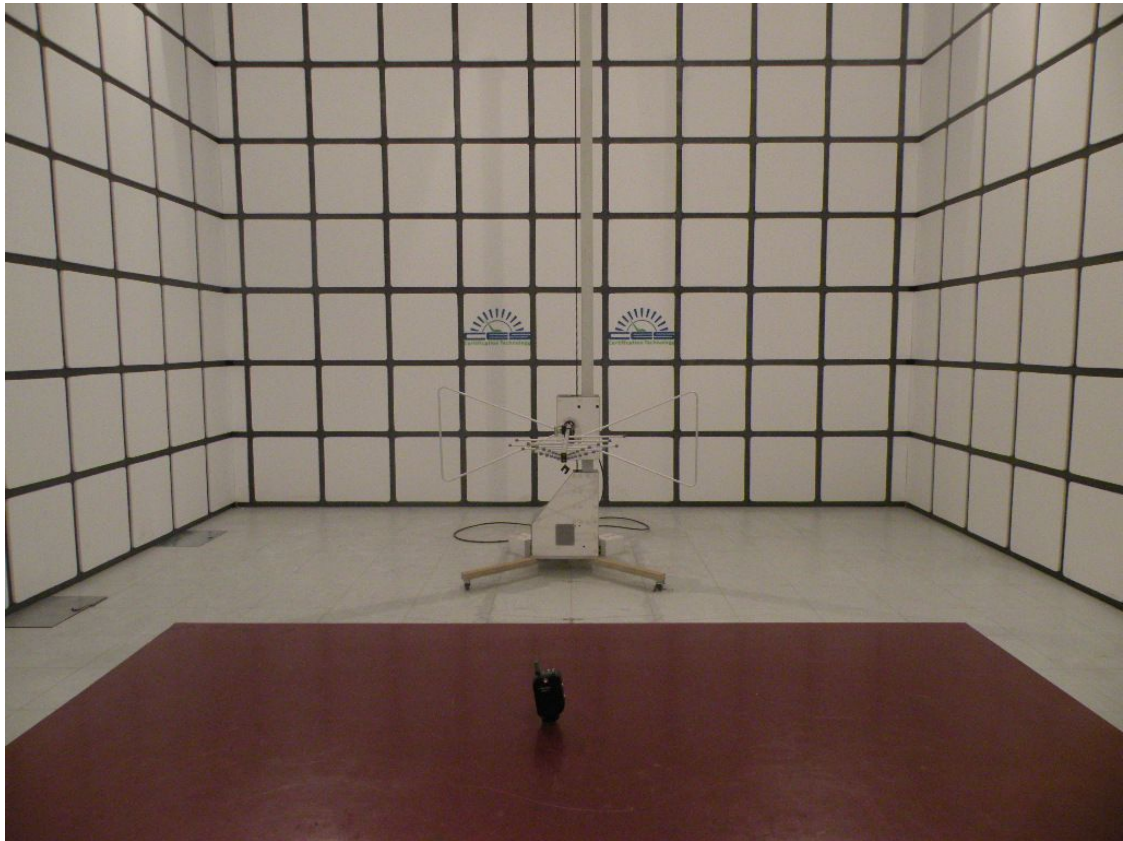
9.3 Result

The EUT antenna is integral Antenna. It comply with the standard requirement.

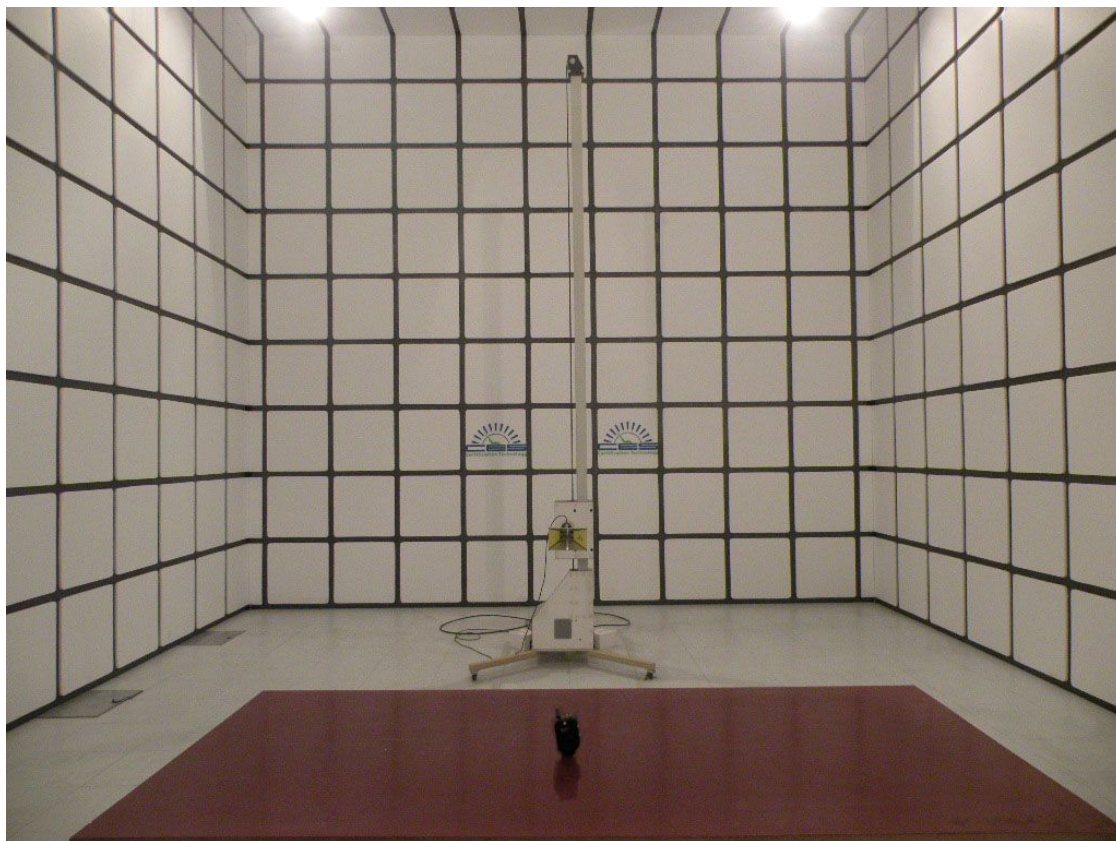
10 Photographs of Test Setup

Photographs-Radiated Emission Test Setup in Chamber

Below 1G



Above 1G



Photographs-Conducted Emission Test Setup in Chamber



11 Photographs of EUT

Figure 1

Photo of EUT

Front View []

Rear View []

Full View []

Bottom View []

Left View []

Right View []

Full View []



Figure 2

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Full View []



Figure 3

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View [✓]

Left View []

Right View []

Full View []



Figure 4

Photo of EUT

Front View [✓]

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Internal View []



Figure 5

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View [✓]

Right View []

Internal View []



Figure 6

Photo of EUT

Front View []

Rear View [✓]

Top View []

Bottom View []

Left View []

Right View []

Internal View []



Figure 7

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View [✓]

Internal View []



Figure 8

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Internal View [✓]

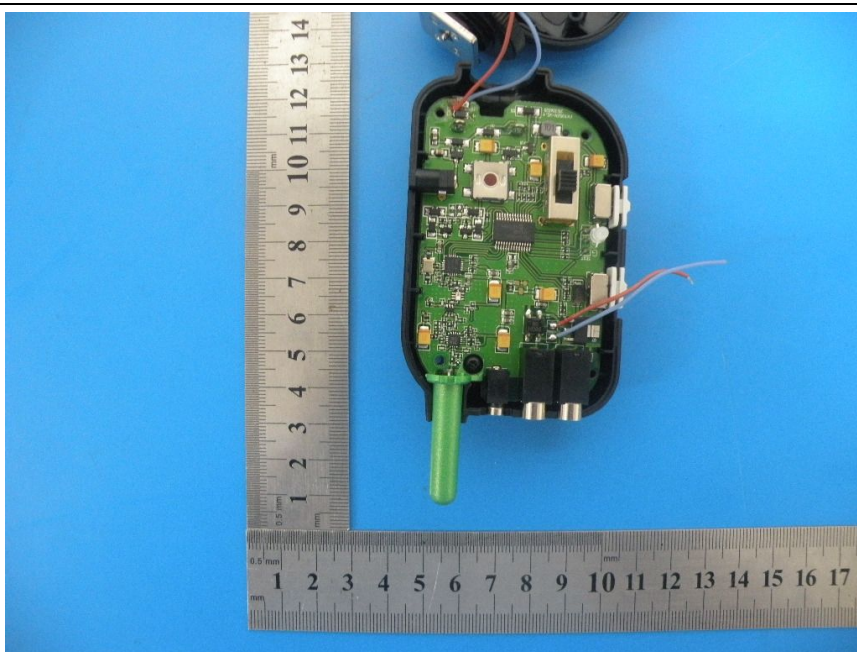


Figure 9

Photo of EUT

Front View []

Rear View []

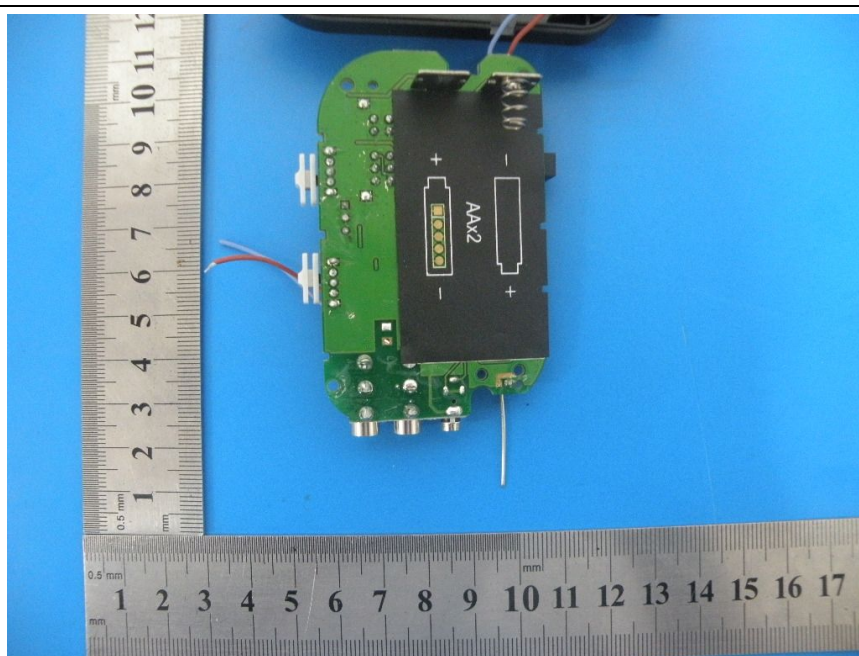
Top View []

Bottom View []

Left View []

Right View []

Internal View []



-----END OF THE REPORT-----