

FCC ID: X5S-C220 Report No.: SZAWW190917008-01 Page1 of 35

# FCC TEST REPORT

: Pixel Enterprise Limited Client Name

Rm1228,12/F,One Grand Tower,639 Nathan Road,Mong Address

K, Hong Kong

**Product Name** Photographic light

Date Jan. 06, 2020

## **Shenzhen Anbotek Compliance Laboratory Limited**

**Shenzhen Anbotek Compliance Laboratory Limited** 

Hotline



### Report No.: SZAWW190917008-01

## FCC ID: X5S-C220

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## TEST REPORT

Applicant : Pixel Enterprise Limited

Manufacturer : Pixel Enterprise Limited

Product Name : Photographic light

Model No. : C220, C330, C150, C100

Trade Mark :

Rating(s) : Input: DC 3V, 10mA

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.249

Test Method(s) : ANSI C63.10: 2013

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Date of Test

Sept. 17, 2019

Sept. 17, 2019~Jan. 02, 2020

Prepared by

(Engineer / Dolly Mo)

Reviewer

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited





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## 1. General Information

## 1.1. Client Information

Applicant	:	Pixel Enterprise Limited
Address	•	Rm1228,12/F,One Grand Tower,639 Nathan Road,Mong K, Hong Kong
Manufacturer	:	DONGGUAN SUOAI ELECTRONICS CO.,LTD
Address	••	No.3, Huayu Street, Changlong Village, Huangjiang Town, Dongguan, China
Factory	:	DONGGUAN SUOAI ELECTRONICS CO.,LTD
Address	i	No.3, Huayu Street, Changlong Village, Huangjiang Town, Dongguan, China

## 1.2. Description of Device (EUT)

:	Photographic light	anbotek Anbotek Anbotek Ambotek
:	C220, C330, C150, C100 (Note: All samples are the sam "C220" for test only.)	ne except the appearance, so we prepare
:	Pixel lek Anbor	potek Anbotek Anbotek Anbotek Anbotek
:	DC 3V	Anbotek Anbotek Anbotek Anbotel
:	1-2-1(Normal Sample), 1-2-2(E	Engineering Sample)
	Operation Frequency:	2405-2475.5MHz
	Number of Channel:	48 Channels
:	Modulation Type:	GFSK MODIFIER TO THE PROPERTY OF THE PROPERTY
	Antenna Type:	PCB Antenna
	Antenna Gain(Peak):	0 dBi
	: :	C220, C330, C150, C100 (Note: All samples are the sam "C220" for test only.)  DC 3V  1-2-1(Normal Sample), 1-2-2(E Operation Frequency: Number of Channel: Modulation Type: Antenna Type:

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





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### 1.3. Auxiliary Equipment Used During Test

N/A	Aupo, otek	Anbotek	Anboro	An. Polek	Anbotek
	le supo.	be.	hore	Ville	otek.

### 1.4. 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	Augo	anborek	CH00	shorek	Anboren	Aup
Mode 2	Anba	Anbotek	CH23	Dingpotek	Anboten	r Vu
Mode 3	And hotel	K Anbotel	CH47	nbotel	K Anbore	ak.

	For Radiated Emission								
	Final Test Mo	Final Test Mode Description							
	Mode 1	Anbotek	Anbore	Arrabotek	CH00	Anbo	Aupotek	Anb	
ooten	Mode 2	Anbotek	Aupor	Anapotek	CH23	Auprojek	Anbotek	P.	
Yupole	Mode 3	Anbore	Anbo	k Anbotel	CH47	Aug Pug	ak Anbore	 	

#### Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



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## 1.5. List of Channels

Channel	Freq.	Channel	Freq.	Channel	Freq.	Channel	Freq.
	(MHz)		(MHz)		(MHz)		(MHz)
00	2405	01 Anto	2406.5	02	2408	03	2409.5
04	2411	o <sup>101</sup> 05	2412.5	06	2414	07	2415.5
08	2417	09	2418.5	10	2420	11	2421.5
o <sup>t 2</sup> 12	2423	13	2424.5	14	2426	15 And 15	2427.5
16	2429	17	2430.5	18	2432	19	2433.5
20	2435	21	2436.5	22	2438	23	2439.5
24	2441	25	2442.5	26	2444	27 Anbo	2445.5
28	2447	29	2448.5	30	2450	31 N	2451.5
32	2453	33	2454.5	34	2456	35	2457.5
36	2459	37	2460.5	38	2462	39	2463.5
40	2465	41	2466.5	42	2468	43	2469.5
44	2471	45,000	2472.5	46	2474	47	2475.5



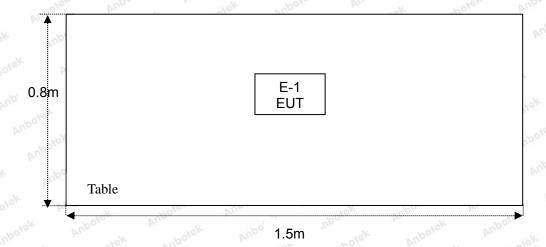
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### 1.6. Description of Test Setup

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## 1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1. <sup>Ant</sup>	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 04, 2019	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.nb	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 04, 2019	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year
7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 01, 2019	1 Year
9.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 01, 2019	1 Year
10.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
12.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 04, 2019	1 Year
13.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 04, 2019	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 04, 2019	1 Year
15.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
16.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 04, 2019	1 Year
17.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 04, 2019	1 Year
18.	DC Power Supply	LW	TPR-6420D	374470	Nov. 04, 2019	1 Year
19.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 04, 2019	1 Year



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#### 1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbo	Anborek Anbore
		Ur = 3.8 dB (Vertical)	Anu hotek	Anborek Anbo
4		otek anbotek Ant	ote, Aug potel	Anbotek Anbo
Conduction Uncertainty	:	Uc = 3.4 dB	Anbore Am	stek Anbotek Ant

#### 1.9. Description of Test Facility

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

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 27, 2019.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102





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## 2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	N/A
15.249	Radiated Emission	PASS
15.215(c)	20dB Bandwidth	PASS
15.249(c)	Band Edge	PASS



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### 3. Conducted Emission Test

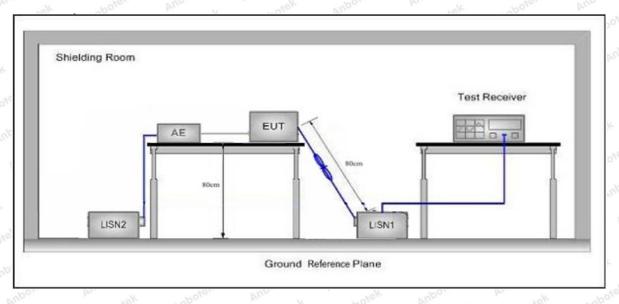
### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207	otek Anbotek Anbo	ok Ambotek Ambotel					
Test Limit	Fraguency	Maximum RF Line Voltage (dBuV)						
	Frequency	Quasi-peak Level	Average Level					
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *					
	500kHz~5MHz	56	46					
	5MHz~30MHz	60	50					

**Remark:** (1) \*Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

#### 3.2. Test Setup



#### 3.3. Test Procedure

The EUT system 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 line 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 FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test Photographic light (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

#### 3.4. Test Data

The EUT is powered by DC 3V battery inside, so there is no need to conduct this test.

Shenzhen Anbotek Compliance Laboratory Limited





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## 4. Radiated Emission and Band Edge

### 4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15	5.209 and 15.205	potek Aupor	ok spoi	rek Anboter
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Anbo	Anbotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbo wote	k -upotek	30
	1.705MHz-30MHz	30	ote. Aug	otek - Anbot	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	otek 3 Anbo
	88MHz~216MHz	150	43.5	Quasi-peak	Anboten 3 Ar
	216MHz~960MHz	200	46.0	Quasi-peak	Anbola 3
anbo motel	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Al 4000MH-	500	54.0	Average	3,000
	Above 1000MHz	K And	74.0 And	Peak	otek 3 Anbot

#### Remark:

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Standard	FCC Part15 (	Section 15.249	nbotek Anbo	k nbot	sk Aup	ore Am
Test Limit	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	2400~2483.5	Ambotek 50 Ambot	ak abotek	114.0	Peak	3 otek
	2400~2483.5	50 And	rek abotek	94.0	Average	rek 3 anbotek
	2400~2483.5	Anbotek Ar	500	74.0	Peak	otek 3 Anbo
	2400~2483.5	k Anbotek	500	54.0	Average	toole 3

#### Remark:

(1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

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4.2. Test Setup

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Figure 1. Below 30MHz

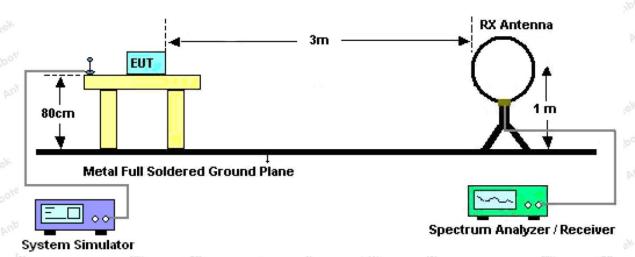


Figure 2. 30MHz to 1GHz

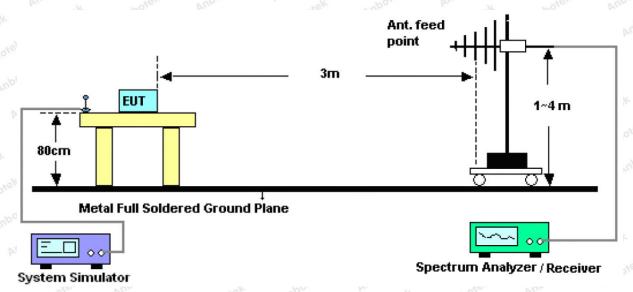
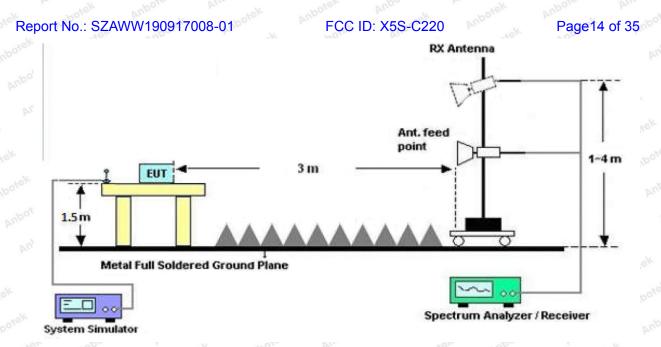


Figure 3. Above 1 GHz





#### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

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For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

#### 4.4. Test Data

#### **PASS**

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all the modes, and found the Middle channel which is the worst case, only the worst case is recorded in the report

**Shenzhen Anbotek Compliance Laboratory Limited** 

Hotline 400-003-0500 www.anbotek.com

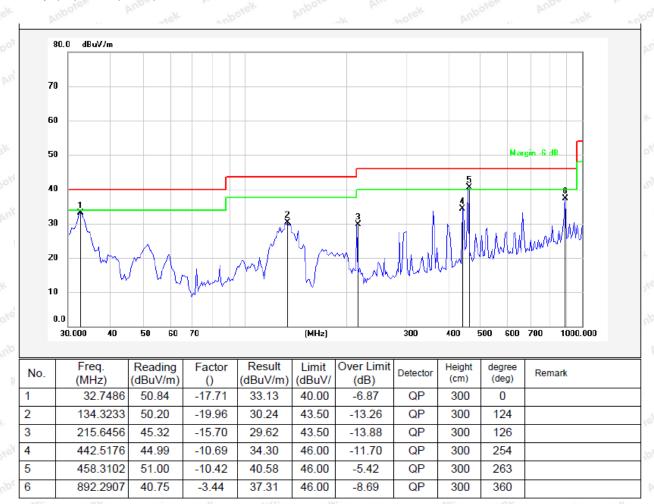


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Test Results (30~1000MHz)

Test Mode: Mode 2
Power Source: DC 3V
Polarization: Vertical

Temp.(°C)/Hum.(%RH): 23.2°C/53.4%RH



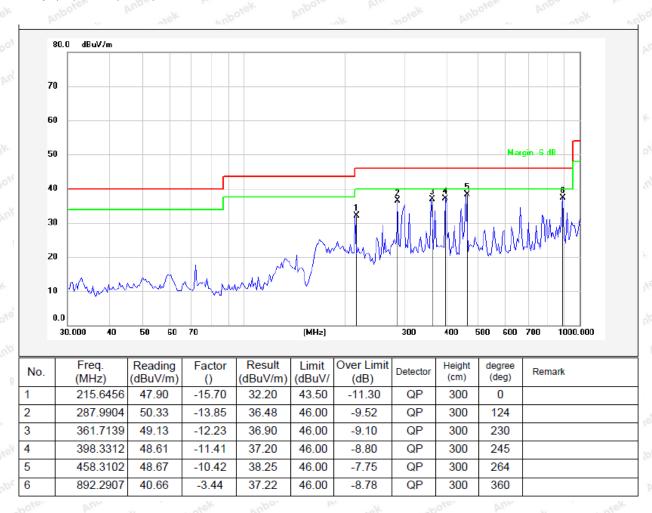


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Test Results (30~1000MHz)

Test Mode: Mode 2
Power Source: DC 3V
Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 23.2°C/53.4%RH





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### Test Results (1GHz-25GHz)

	3 (10112-200	hole	Vien.		iek out	)0	Yar	-700	P
Test Mode:	CH00 (Low	channel)							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detecto r
2405.0000	93.74	31.21	2.17	35.30	91.82	114.00	-22.18	V	Peak
2405.0000	86.62	31.21	2.17	35.30	84.70	94.00	-9.30	ALI VIE	AVG
4810.0000	48.47	34.01	2.56	34.71	50.33	74.00	-23.67	N/Po	Peak
4810.0000	42.14	34.01	2.56	34.71	44.00	54.00	-10.00	V	AVG
7215.0000	41.77	36.16	2.98	35.15	45.76	74.00	-28.24	× V	Peak
7215.0000	35.64	36.16	2.98	35.15	39.63	54.00	-14.37	ot V	AVG
9620.0000	*	Kek D	abovek p	upo,	abotel	Anbo	N. Bu	wotek	Anbot
12025.0000	*	-otek	Anbotek	Aupo	k ~/0°	lek bi	poten	MO.	sk ar
14430.0000	*	, otek	Anborek	Aupor	.eV	botek	Anboten	Puga	otek
16835.0000	Anboten	Puto Potek	Anbotel	Ant	rek t	abotek	Anboren	b.u.	-otek
2405.0000	92.24	31.21	2.17	35.30	90.32	114.00	-23.68	Н	Peak
2405.0000	81.21	31.21	2.17	35.30	79.29	94.00	-14.71	H	AVG
4810.0000	46.24	34.01	2.56	34.71	48.10	74.00	-25.90	up H	Peak
4810.0000	40.54	34.01	2.56	34.71	42.40	54.00	-11.60	NH <sup>o</sup>	AVG
7215.0000	41.41	36.16	2.98	35.15	45.40	74.00	-28.60	Hanb	Peak
7215.0000	33.70	36.16	2.98	35.15	37.69	54.00	-16.31	Н	AVG
9620.0000	* hotek	Anbor	Anbo	-tek	anborek	Aupore	k hu	rek	Anborek
12025.0000	* * "O!	ek an	ootek pr	Poly.	anbotek	Aupor	AUD.	hotek	Anbore
14430.0000	*	otek	Anbotek	Vupo,	, noot	ak Ant	ote. V	note)	L Dup
16835.0000	OFE, DU	-otek	Anborek	Arborn	ek m	orek	ruposer	PUD.	sek .
1236	10 V	VOD.	Yan	50	DI.	901	461	000	

#### Note:

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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		Antenna		Droama					
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detecto r
2439.5000	92.65	31.12	2.20	34.51	91.46	114.00	-22.54	O'V	Peak
2439.5000	78.29	31.22	2.20	34.51	77.20	94.00	-16.80	Viek	AVG
4879.0000	52.05	34.98	2.49	34.14	55.38	74.00	-18.62	Vabo	Peak
4879.0000	43.39	34.98	2.49	34.14	46.72	54.00	-7.28	٧	AVG
7318.5000	41.10	36.01	3.01	34.56	45.56	74.00	-28.44	× V	Peak
7318.5000	37.21	36.01	3.01	34.56	41.67	54.00	-12.33	V	AVG
9758.0000	***************************************	eek to	abotek P	hpote	Pur	Anbo	S <sub>F</sub> V <sub>U</sub>	-tek	dno
12197.5000	* Anb	-tek	- upotek	Anboren	k No	Kek Pi	poter	AUDO.	8/K
14637.0000	poter * M	ipo otek	anborek	Anbore	Pure View	notek	Anbotek	AUPO	riek
17076.5000	Anbotek	Anboarek	abotel	Anto	D) V	hotek	Anbotek	A.Tr	o tek
2439.5000	92.70	31.12	2.20	34.51	91.51	114.00	-22.49	Н	Peak
2439.5000	78.08	31.12	2.20	34.51	76.89	94.00	-17.11	H	AVG
4879.0000	43.08	34.98	2.49	34.14	46.41	74.00	-27.59	nbHer.	Peak
4879.0000	40.05	34.98	2.49	34.14	43.38	54.00	-10.62	N.HPOJE	AVG
7318.5000	43.21	36.01	3.01	34.56	47.67	74.00	-26.33	Hank	Peak
7318.5000	35.84	36.01	3.01	34.56	40.30	54.00	-13.70	Н,	AVG
9758.0000	Ambe * otek	anbol	ek Anbo	rek Þ	abotek	Aupoten	N DUD	rek.	Anborek
12197.5000	* A.Ma	ing Vis	ootek Ar	loo.	projek	Anbore	Y VUD	Lotek	Anbo
4637.0000	* Ambo	otek	Mpotek	Aupor	Principol,	ak Ant	Ofer P	ne cote	- 2
17076.5000	otek * An	rek	aborek	Anbore	N Prov	otek	nborek	VURO	rek K

#### Note:

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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j., br.,		-401-	rupe		4- 40	1030 B	777		187
Test Mode:	CH47 (High	channel)							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detecto r
2475.5000	94.09	31.64	2.18	35.89	92.02	114.00	-21.98	Vio	Peak
2475.5000	88.56	31.64	2.18	35.89	86.49	94.00	-7.51	Viek	AVG
4951.0000	54.21	35.10	2.52	34.87	56.96	74.00	-17.04	Vabo	Peak
4951.0000	40.42	35.10	2.52	34.87	43.17	54.00	-10.83	٧	AVG
7426.5000	36.21	36.18	3.18	34.96	40.61	74.00	-33.39	× V	Peak
7426.5000	32.71	36.18	3.18	34.96	37.11	54.00	-16.89	V	AVG
9902.0000	*"	ek h	botek P	upote	Pun	Anbo	Sk Vuj	-tek	nb.
12377.5000	* Andr	-xek	Labotek	Anboren	r bus	KEK PL	potek	Yupo.	. 4 <sub>8</sub>
14853.0000	potek * M	ipo,	aborek	Anbore	Y Dun	hotek	Anbotek	Vupo.	-tek
17328.5000	Anbotek	Anbo.	abotel	Ant	Die V	hotek	Anbotek	P.U.	a tek
2475.5000	94.41	31.64	2.18	35.89	92.34	114.00	-21.66	Н	Peak
2475.5000	76.32	31.64	2.18	35.89	74.25	94.00	-19.75	otek H	AVG
4951.0000	48.41	35.10	2.52	34.87	51.16	74.00	-22.84	nb Her	Peak
4951.0000	41.41	35.10	2.52	34.87	44.16	54.00	-9.84	N/Poke	AVG
7426.5000	45.24	36.18	3.18	34.96	49.64	74.00	-24.36	Hank	Peak
7426.5000	36.28	36.18	3.18	34.96	40.68	54.00	-13.32	н	AVG
9902.0000	And * otek	Anboi	Ek Anbo	- olk	botek	Anboten	Pup	tek.	anbotek
12377.5000	Ambo	ina Vis	ootek bu	bor	Abotek	Anbore	AUD.	*otek	Anbo
14853.0000	* Ambo	otek	Motek	Aupor	All too's	ak Ant	oren A	np-	F 07
17328.5000	otek * An	otek	Anbotek	Aupor	ok Alle	otek	upoter	Vilpo	rek

#### Note:

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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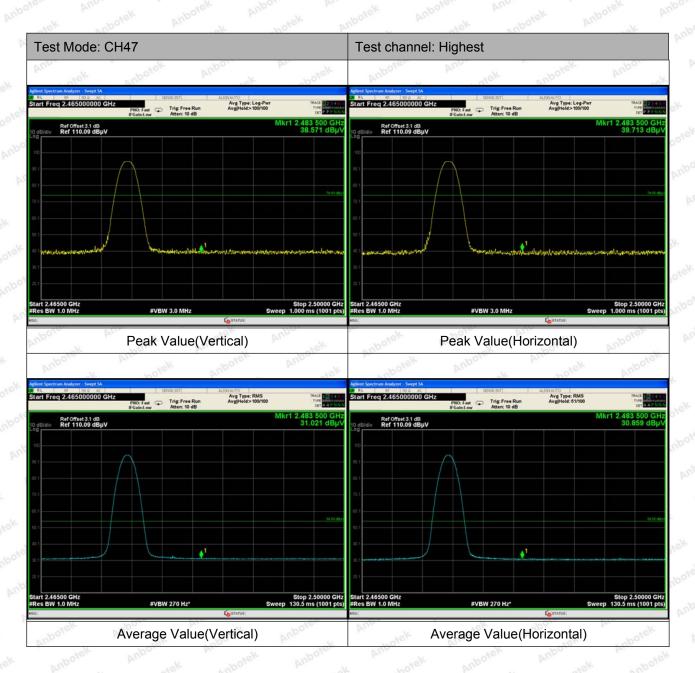
#### Radiated Band Edge:



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#### Remark:

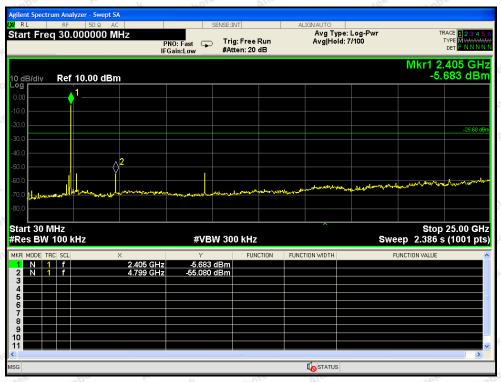
1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor



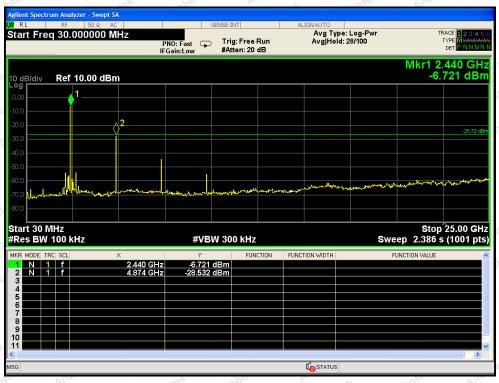
Report No.: SZAWW190917008-01
Conducted Emission Method

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CH: Low



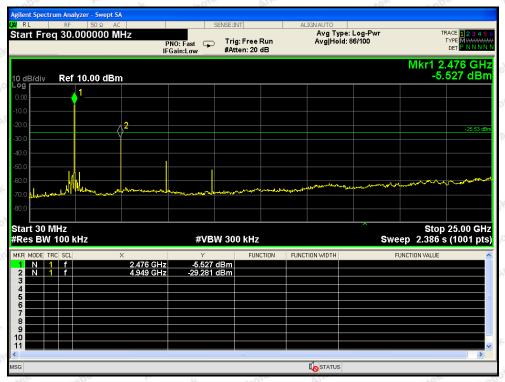
CH: Middle



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CH: High

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## 5. 20dB Bandwidth Test

#### 5.1. Test Standard and Limit

Test Standard FCC Part15 C Section 15.249

#### 5.2. Test Setup



#### 5.3. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW = 30kHz, VBW≥3\*RBW =100kHz,

Detector= Average

Trace mode= Max hold.

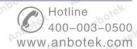
Sweep- auto couple.

- 4. Mark the peak frequency and -20dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

#### 5.4. Test Data

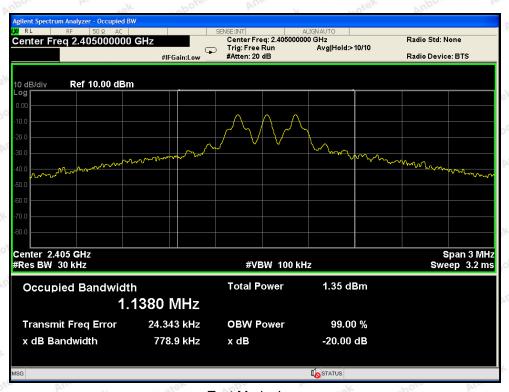
Test Item	:	20dB Bandwidth	Test Mode	:	Mode 1
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	<b>22.4</b> ℃
Test Result	:	PASS	Humidity	:	55%RH

	Frequency (MHz)	Bandwidth (kHz)	Result
of Sk	2405.0MHZ	778.9	PASS
hotek	2439.5MHZ	765.1	PASS
Anbotes	2475.5MHZ	759.4	PASS

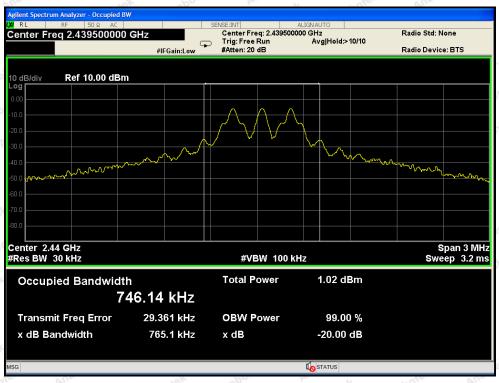




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Test Mode: Low



Test Mode: Middle

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Test Mode: High



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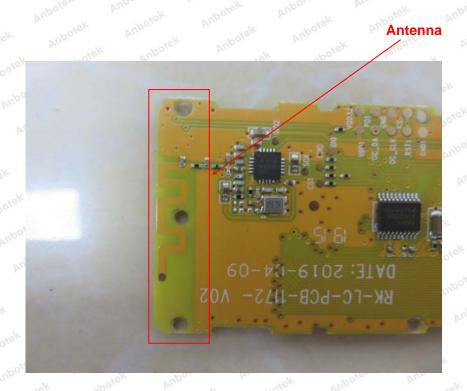
## 6. Antenna Requirement

## 6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
	1) 15.203 requirement:     An intentional radiator shall be designed to ensure that no antenna other than that
Requirement	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, 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.

#### 6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

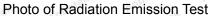


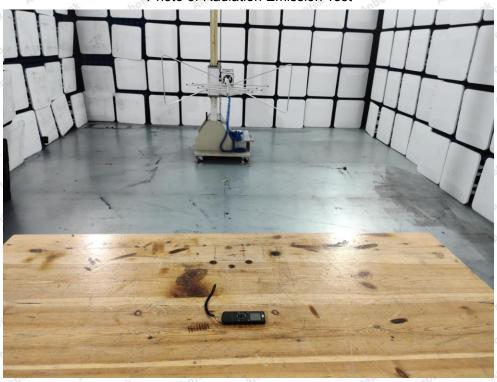
**Shenzhen Anbotek Compliance Laboratory Limited** 



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## **APPENDIX I -- TEST SETUP PHOTOGRAPH**







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## **APPENDIX II -- EXTERNAL PHOTOGRAPH**





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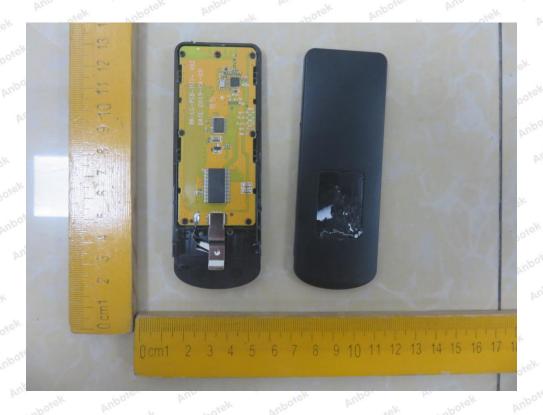


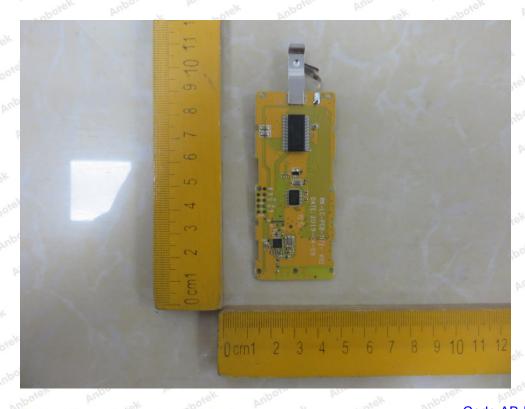
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## **APPENDIX III -- INTERNAL PHOTOGRAPH**





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