



FCC PART 15.249 TEST REPORT

For

LEEDARSON LIGHTING CO., LTD.

Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China

FCC ID: 2AB2Q-11A19060WCCTM

Report Type:		Product Type:
Original Report		LED Lamp
Report Number:	RXM210923050-0)0B
Report Date:	2021-11-04	
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Prepared By:	1/F., Building A, C	396

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Report No.: RXM210923050-00B

Shenzhen Accurate Technology Co., Ltd.

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GENERAL INFORMATION

Product	LED Lamp
Tested Model	11A19060WCCTM01
Multiple Model	11A19060WCCTMxx, 11aSy-A800ST-Q1TZM-xx (Where "y" may be "A"-"Z" for different enclosure pattern design; "xx or XX" may be "00" to "99", which designates for different beam angle, color of eyelet contact, package of style, color of enclosure.)
Model Differences	Refer to the DoS letter
Frequency Range	5726~5874MHz
Modulation Technique	CW
Antenna Specification	3.0dBi
Voltage Range	AC 120V/60Hz
Date of Test	2021-10-08 to 2021-11-04
Sample serial number	RXM210923050-S1(Assigned by ATC, Shenzhen)
Received date	2021-09-23
Sample/EUT Status	Good condition

Product Description for Equipment under Test (EUT)

Objective

This test report is in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty	
	30MHz - 1GHz	4.28dB	
Emissions,	1GHz-18GHz	4.98dB	
Radiated	18GHz- 26.5GHz	5.06dB	
	26.5GHz- 40GHz	4.72dB	
Temperature		1 °C	
Humidity		6%	
Supply	voltages	0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A-2.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing by manufacturer.

Swept frequency range: 5726~5874MHz Low channel: 5726MHz; Middle channel: 5800MHz; High channel: 5874MHz

EUT Exercise Software

EUT was test in test mode configured for testing by manufacturer and power level is default*.

Equipment Modifications

No modifications were made to the unit tested.

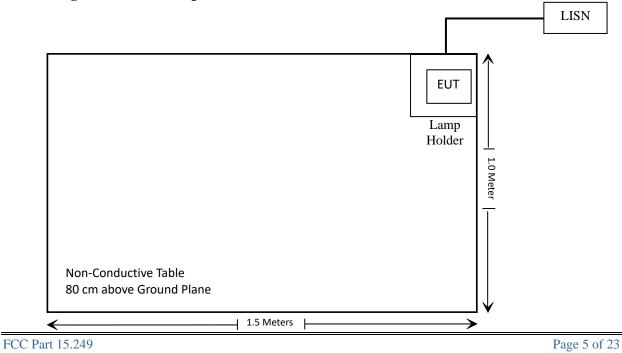
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Lamp holder	Unknown	Unknown

Support Cable Descriptions

Cable Description	Length (m)	From/Port	То
Un-Shielded Un-Detachable AC Cable	1.2	Lamp holder	LISN

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conduction Emissions	Compliant
15.205, §15.209, §15.249(d)	Radiated Emissions& Outside of Band Emission	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant

Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	AC Line	Conducted Emiss	sion Test		
Rohde& Schwarz	Test Receiver	ESPI3	100396	2020/12/24	2021/12/23
R & S	L.I.S.N.	ENV216	101314	2020/12/25	2021/12/24
Anritsu Corp	50ΩCoaxial Switch	MP59B	6200506474	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-2m	No.2	2020/12/25	2021/12/24
Rohde & Schwarz	Test Software	ES-K1 V1.71	Unknown	NCR	NCR
	Rad	iated Emission T	est		
Rohde& Schwarz	Test Receiver	ESR	101817	2020/12/24	2021/12/23
Rohde&Schwarz	Spectrum Analyzer	FSV40	101495	2020/12/24	2021/12/23
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24
A.H. Systems, inc.	Preamplifier	PAM-0118P	531	2021/07/08	2022/07/07
Quinstar	Amplifier	QLW-1840553 6-J0	15964001002	2020/11/28	2021/11/27
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2020/12/25	2021/12/24
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/05	2023/01/04
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
OREGON SCIENTIFIC	Temperature & Humidity Meter	JB913R	GZ-WS004	2020/01/02	2023/01/01
FARAD	Test Software	EZ_EMC V 1. 1.4.2	V1.1.4.2	NCR	NCR
Unknown	RF Coaxial Cable	N-5m	No.3	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-5m	No.4	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.5	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.6	2020/12/25	2021/12/24
CD	Band Reject Filter	BRM-5.725/5. 875G-45	065	2020/12/25	2021/12/24
CD	High Pass Filter	HPM-8.0/18G- 60	020	2020/12/25	2021/12/24

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 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. 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.

Antenna Connector Construction

The EUT has one internal antenna which was permanently attached and the antenna gain is 3dBi, fulfill the requirement of this section. Please refer to the EUT photos.

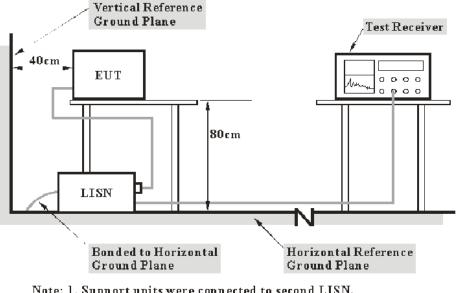
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Transd Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Transd Factor = LISN VDF + Cable Loss

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – level Level= reading level+ Transd Factor

Test Data

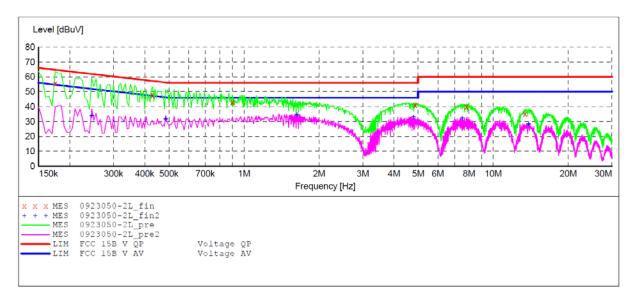
Environmental Conditions

Temperature:	23 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Anny on 2021-10-13.

EUT Operation Mode: Transmitting (worst case is Low channel)

AC 120V/60 Hz, Line



MEASUREMENT RESULT: "0923050-2L fin"

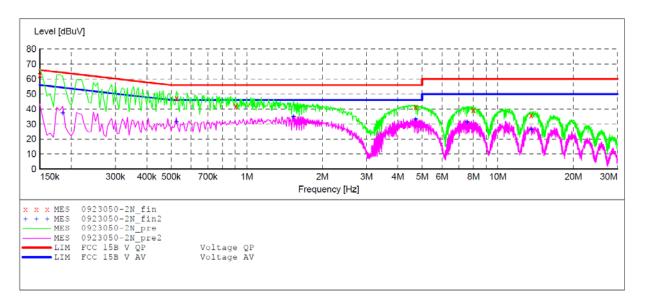
2021-10-13 11:00 Frequency Level Transd Limit Margin Detector Line PE MHz dBuV dB dBuV dB 0.175000 9.3 QP L1 GND 9.3 QP 0.430000 L1GND 0.900000 13.0 QP L1 GND 15.0 QP 15.0 QP 20.1 QP 24.7 OP 4.860000 L1 GND L17.810000 GND 13.425000 L1GND

MEASUREMENT RESULT: "0923050-2L fin2"

2021-10-13 11 Frequency MHz	:00 Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.245000 0.485000 1.630000 4.780000 7.510000 13.875000	33.70 31.60 34.50 32.90 32.20 28.20	10.9 11.0 11.2 11.4 11.5 11.6	52 46 46 50 50	18.3 14.4 11.5 13.1 17.8 21.8	AV AV AV AV AV AV	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND

ΡE

AC 120V/60 Hz, Neutral



MEASUREMENT RESULT: "0923050-2N fin"

2021-10-13 11:33 Frequency Level Transd Limit Margin Detector Line MHz dBuV dB dBuV dB 0.150000 10.8 66 3.4 62.60 QP Ν GND 11.0 56 0.525000 47.30 8.7 QP Ν GND 11.1 0.905000 42.00 56 14.0 QP Ν GND 41.40 11.4 56 Ν GND 4.710000 14.6 QP QP 8.000000 39.40 11.5 60 20.6 Ν GND 13.575000 35.70 11.6 60 24.3 QP Ν GND

MEASUREMENT RESULT: "0923050-2N fin2"

2021-10-13 11	:03						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBuV	dB	dBuV	dB			
0.185000	37.10	10.8	54	16.9	AV	N	GND
0.525000	31.40	11.0	46	14.6	AV	N	GND
1.535000	34.90	11.2	46	11.1	AV	Ν	GND
4.710000	33.40	11.4	46	12.6	AV	Ν	GND
7.550000	31.40	11.5	50	18.6	AV	Ν	GND
13.600000	26.30	11.6	50	23.7	AV	Ν	GND

FCC§15.205, §15.209 & §15.249(d) - RADIATED EMISSIONS

Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	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		

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

As per FCC§15.249 (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 §15.209, whichever is the lesser attenuation.

Test Equipment Setup

The spectrum analyzer or receiver is set as:

Below 1000MHz:

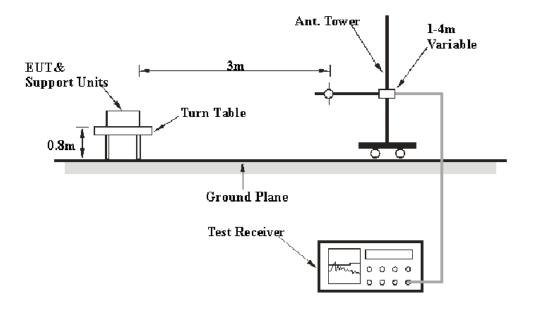
RBW = 100 kHz / VBW = 300 kHz / Sweep = Auto

Above 1000MHz:

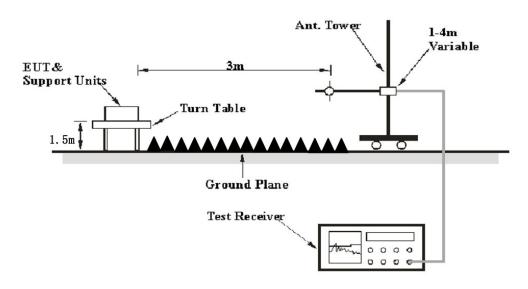
Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane for below 1GHz or 1.5 meter for above 1GHz, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Corrected Amplitude - Limit

Test Data

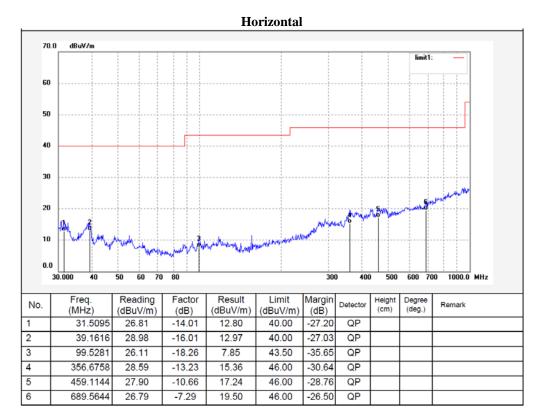
Environmental Conditions

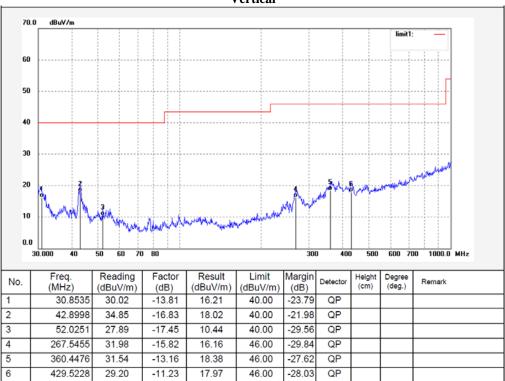
Temperature:	23~25 °C
Relative Humidity:	48~50 %
ATM Pressure:	100.9~103.0 kPa

The testing was performed by Fan Yang and Ting Lv on 2021-10-08 and 2021-10-13.

Test Mode: Transmitting

30MHz-1GHz: (Worst case is Low channel)





Vertical

FCC Part 15.249

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1-40 GHz:

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1-40 G	112.								
Frequency	Rece	eiver	Turntable	Rx Antenna		Factor	Absolute	Limit	Margin
(MHz)	Reading (dBuV)	PK/AVG	Angle Degree	Height (m)	Polar (H/V)	(dB/m)	Level (dBuV/m)	(dBuV/m)	(dB)
			L	ow Channel ((5726 MHz)				
5726	81.47	РК	59	1.8	Н	3.96	85.43	114	-28.57
5726	71.19	AVG	59	1.8	Н	3.96	75.15	94	-18.85
5726	81.32	РК	43	1.8	V	3.96	85.28	114	-28.72
5726	70.51	AVG	43	1.8	V	3.96	74.47	94	-19.53
5725	51.28	РК	77	1.6	Н	3.97	55.25	74	-18.75
5725	38.33	AVG	77	1.6	Н	3.97	42.3	54	-11.7
5725	49.25	РК	284	1.7	V	3.97	53.22	74	-20.78
5725	37.95	AVG	284	1.7	V	3.97	41.92	54	-12.08
11452	36.08	РК	62	2.0	Н	14.9	50.98	74	-23.02
11452	34.14	РК	277	2.0	V	14.9	49.04	74	-24.96
			Mi	ddle Channel	(5800 MHz)		•		
5800	80.9	РК	351	1.7	Н	4.19	85.09	114	-28.91
5800	69.3	AVG	351	1.7	Н	4.19	73.49	94	-20.51
5800	81.38	РК	346	1.4	V	4.19	85.57	114	-28.43
5800	71.66	AVG	346	1.4	V	4.19	75.85	94	-18.15
11600	36.26	РК	281	1.6	Н	14.59	50.85	74	-23.15
11600	35.67	РК	70	1.2	V	14.59	50.26	74	-23.74
			Н	igh Channel ((5874 MHz)				
5874	80.65	РК	312	1.9	Н	4.4	85.05	114	-28.95
5874	72.3	AVG	312	1.9	Н	4.4	76.7	94	-17.3
5874	81.8	РК	34	1.7	V	4.4	86.2	114	-27.8
5874	70.63	AVG	34	1.7	V	4.4	75.03	94	-18.97
5875	45.13	РК	129	1.4	Н	4.41	49.54	74	-24.46
5875	27.12	AVG	129	1.4	Н	4.41	31.53	54	-22.47
5875	45.78	РК	343	1.7	V	4.41	50.19	74	-23.81
5875	26.47	AVG	343	1.7	V	4.41	30.88	54	-23.12
11748	37.11	РК	314	1.2	Н	14.35	51.46	74	-22.54
11748	39.74	РК	275	1.7	V	14.35	54.09	74	-19.91
11748	32.36	AVG	275	1.7	V	14.35	46.71	54	-7.29

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss - Amplifier Factor

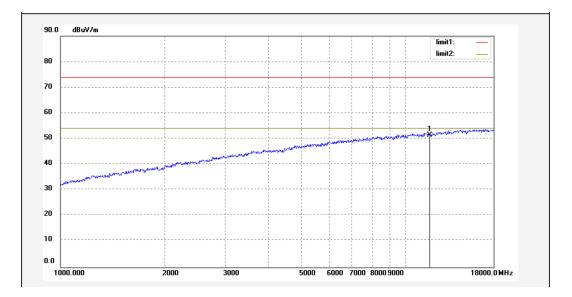
Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude - Limit

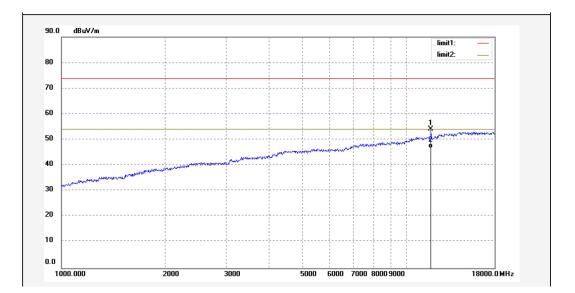
The other spurious emission which is 20dB to the limit was not recorded. The test result of peak was less than the limit of average, so just peak values were recorded.

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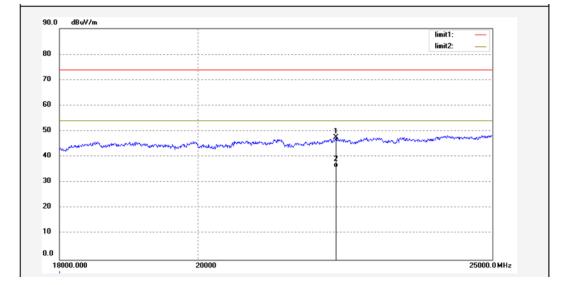
Pre-scan with high channel Peak 1-18GHz Horizontal



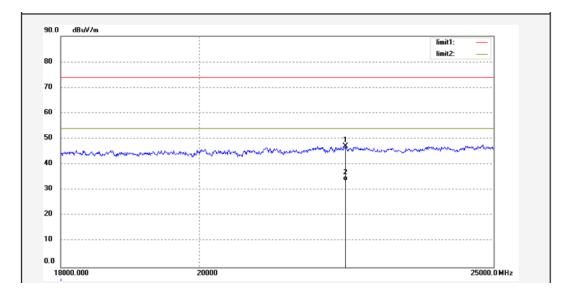




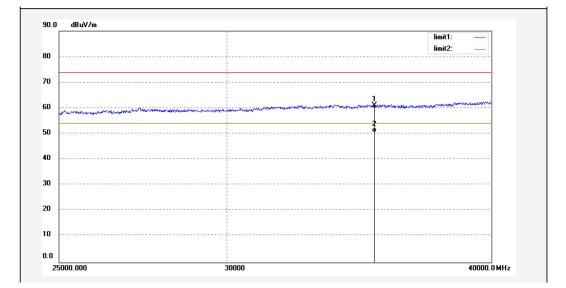




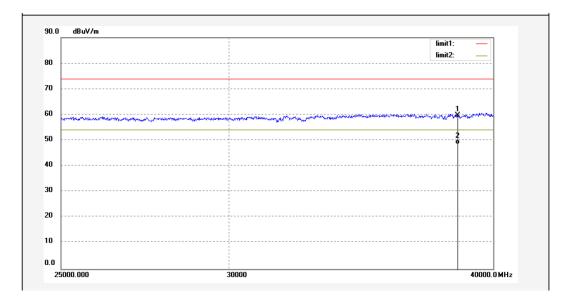








Vertical



FCC§15.215(c) - 20dB EMISSION BANDWIDTH

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.

- 3. Measure the frequency difference of two frequencies that indicated 20dB bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

Temperature:	25.6 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Fan Yang on 2021-10-25 and 2021-11-04.

Test Mode: Transmitting

Please refer to the following table and plots.

Channel	Frequency (MHz)	20dB Bandwidth (kHz)		
Low	5726	4.86		
Middle	5800	8.00		
High	5874	6.44		

Mode	20dB bandwidth(MHz)
Swept frequency	149.52

Spectru Ref Leve Att			8 e SWT 33.4 ms	 RBW 300 Hz VBW 1 kHz 	Mode Auto FFT			
1Pk Viev	/							
90 dBuV-	_				D1[1]		-15.95 dE 4.860 kH	
	D1	85.478	dBµV		Occ Bw	There	4.486251809 kH	
80 dBµV–	-				M1[1]	м1	72.74 dBµ	
70 dBuV-							5.726026950 GH	
/o uopv	-	-D2 65	.478 dBµV				01	
60 dBµV-							+	
50 dBuV-								
50 ивру-								
40 dBµV-	_						<u> </u>	
						5	λ.	
30 dBµV-	mor	mon al	mennon	une man	have a war we	man	manument	
20 dBµV-	_				- manual and the		a a house of	
10 dBµV—	-							
0 dBuV—	_							
CF 5.726	GHz			691	pts		Span 100.0 kHz	
1arker								
	tef 📋	Trc	X-value	Y-value	Function	Funct	ion Result	
M1	_	1	5.72602695 GHz					
T1 T2		1	5.726027062 GHz 5.726031548 GHz				4.486251809 kHz	
12	M1	1	4.86 kHz					

Low Channel

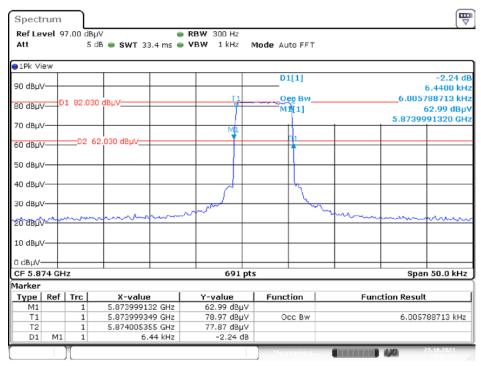
Date: 25.0CT.2021 10:26:52

Middle Channel

Spectru	m									
Ref Leve	97				W 300 Hz					
Att		5 d	B 👄 SWT 33.4 m	s 😑 VB	W 1 kHz	Mode Aut	O FFT			
1Pk View										
JIPK VIEW	-					M1	[1]			52.73 dBµV
90 dBµV—	+						1-1		5.80	J0025470 GHz
	D1	83.869	dBµV			Oc	c Bw—	TL	7.5	25325615 kHz
30 dBµV—	+					D1	[1]	Y	Ý	13.95 dB
70 dBµV—										8.000 kHz
o appv		-02.63	3.869 dBµV						41	
50 dBµV—	+	02 0.						M1		
50 dBµV—	+									
40 dBµV—										
10 0001										
30. d8h%~~	the	man	ammon	month		menne		month		manna
	1									
20 dBµV—										
10 dBµV—	_									
0 dBµV—										
CF 5.8 GH	łz				691 pt	s			Sp	an 100.0 kHz
larker	- 1									
Type R	ef		X-value		Y-value	Funct	ion	Fi	inction Res	sult
M1 T1	-	1	5.80002547 Gł 5.80002576 Gł		52.73 dBµV 79.67 dBµV	00	c Bw		7 5	25325615 kHz
T2	+	1	5.800033285 GF		77.38 dBµV				7.5	20020010 KH2
	M1	1	8.0 kł		13.95 dB					
		(1			B 4444	25.10.2021

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Shenzhen Accurate Technology Co., Ltd.



High Channel

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Swept frequency:

Ref Li	evel 🤅	97.00 dB	νч	RBW 3 MHz			
Att		0	dB SWT 19.5 µs (VBW 10 MHz	Mode Auto FFT		
∋1Pk M	ах						
					D1[1]		-0.32 c
90 dBµ\	/						149.520 MF
	D	1 83.710	dBµV		Occ.Bw		.7916 (76368 MI
30 dBµ\					M1[1]		63.31 dBj
	. /						5.725240 GI
70 dBµ\	ML						2.
50 dBµ\	.1	—D2 63	3.710 dBµV				
о ивру							
50 dBu\							
50 abp.							- 11
40 dB⊔\	, 						
$\sim\sim$	r 1						
30 dBu\				_			
20 dBµ\							
10 dBµ\							
O dBµV-							
Start 5	.71 G	Hz		691 p	ots		Stop 5.89 GH
larker							
Туре	Ref		X-value	Y-value	Function	Function F	lesult
M1		1	5.72524 GHz	63.31 dBµ\			
T1		1	5.728104 GHz	82.55 dBµ\		143	.791606368 MH
T2 D1	M1	1	5.871896 GHz 149.52 MHz	82.32 dBµ\ -0.32 dB			

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***** END OF REPORT *****