TCT通测检							
TEST REPORT							
FCC ID	2AB2QA20BR3065T20M1						
Test Report No:	TCT220112E905						
Date of issue:	Feb. 28, 2022						
Testing laboratory:	SHENZHEN TONGCE TE	STING LAB					
Testing location/ address:		k Fuqiao 5th Industrial Zone, Fuhai enzhen, Guangdong, 518103, People's					
Applicant's name: :	LEEDARSON LIGHTING						
Address:	Xingda Road, Xingtai Indu Zhangzhou, Fujian, China	strial Zone, Changtai County,					
Manufacturer's name :	LEEDARSON LIGHTING	CO., LTD.					
Address:	Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China						
Factory's name::	L&E Manufacturing Co., Ltd.						
Address:	45/27 Moo3, Talingchan-Suphanburi Rd, Namai, Ladlumkaeo, Pathumthani Province, 12140 Thailand						
Standard(s):	FCC CFR Title 47 Part 15 Subpart C Section 15.249 ANSI C63.10:2013						
Test item description :	LED LAMP						
Trade Mark:	N/A						
Model/Type reference :	Refer to model list of page	3 (0)					
Rating(s):	AC 120V/60Hz						
Date of receipt of test item	Jan. 12, 2022						
Date (s) of performance of test:	Jan. 12, 2022 ~ Feb. 28, 2	2022					
Tested by (+signature) :	Aaron MO	Sorron ADRIGCE					
Check by (+signature) :	Beryl ZHAO	Boy					
Approved by (+signature):	Tomsin	Tomsmes st					

General disclaimer:

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1. General Product Information

1.1. EUT description

Test item description:			
Model/Type reference:	A20BR3065T20MXX		
Sample Number	TCT220112E905-0101		
Operation Frequency:	5750MHz ~ 5850MHz		
Modulation Technology:	FMCW		
Antenna Type:	Internal Antenna	(\mathbf{c}^{*})	(\mathbf{c}^{*})
Antenna Gain:	-0.3dBi		
Rating(s):	AC 120V/60Hz		

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	A20BR3065T20MXX	\boxtimes
Other models	11aDy-BR650ST-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.)	

ote: A20BR3065T20MXX is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of A20BR3065T20MXX can represent the remaining models.

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	Channel	Frequency		Frequency				
	1	5750MHz	2	5830MHz	3	5850MH	Z	
e: In secti	n 15 31(m)	enards to the c	perating frequ	iency range ov	or 10 MHz	the Lowest f	requency th	o m
				ere selected to p				
			Channel		uency			
			Lowest cha		OMHz			
			Middle cha		OMHz			
			lighest ch	annei 5850	OMHz			

TCT通测检测 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§15.249 (a) (d)/ §15.209	PASS
Band Edge	§15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§15.215 (c)	PASS

Note:

- 1. Pass: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.



3. General Information

3.1. Test Environment and Mode

Operating Environment:					
Condition	Conducted Emission	Radiated Emission			
Temperature:	25.0 °C	25.3 °C			
Humidity:	55 % RH	50 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			

Test Mode:

Engineering mode:	Keep the EUT in continuous transmitting by select channel

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m 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 the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.

3.2.Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
, 0	1		/	

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4. Facilities and Accreditations

4.1.Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2.Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB



5. Test Results and Measurement Data

5.1. Antenna Requirement

Standard rec	-			(r .
	uirement:	FCC Part15 C Section	15.203	Ke have been a second s
furnished by t permanently a intentional rac	l radiator shall he responsible attached anter diator, the mar red by the use	be designed to ensure the party shall be used with nna or of an antenna that nufacturer may design the r, but the use of a standa	the device. The us uses a unique coupl o unit so that a broke	e of a ing to the n antenna
E.U.T Antenr			(C)	C
The EUT antegain of the an		al antenna which permane IBi.		he best case
	ନ୍ମ ମ୍ <mark>ୟୁ</mark> ୧୧୦୪୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦୧୦	0 70 30 50 10 mm	elle ser a de la ser	
3	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		elle ser a de la ser	
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8 8 9 02 05 9 02 9 02 9 02		elle ser a de la ser	
3 3 3 3 3 3	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		elle ser a de la ser	

5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15 207	(x)			
-						
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
	Frequency range	Frequency range Limit (dB				
Limits:	(MHz)	Quasi-peak	Áverage			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Refere	ence Plane				
Test Setup:	Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	U.T ane	ter — AC power			
Test Mode:	Transmitting Mode					
Test Procedure:	 The E.U.T and simple power through a line (L.I.S.N.). This pre- impedance for the normal device power through a L coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative the interface cables ANSI C63.10:2013 	e impedance stab ovides a 50ohm neasuring equipme ces are also conne ISN that provides e with 50ohm term diagram of the . line are checken nce. In order to fir re positions of equ s must be chang	ilization network /50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and d for maximum ipment and all o ed according to			
Test Result:	PASS					

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http://www.tct-lab.com

Fax: 86-755-27673332

5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)												
Equipment	Manufacturer	Model	Serial Number	Calibration Due								
EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022								
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Mar. 11, 2022								
Line-5	ТСТ	CE-05	N/A	Jul. 07, 2022								
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A								

5.2.3. Test data

Please refer to following diagram for individual Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz) 80.0 dBu¥ 70 Conduction(QP) 60 50 40 30 20 10 AVG te das 0.0 30.000 (MHz) 0.150 0.500 5,000 Temperature: 25 (°C) Humidity: 55 % Site 844 Shielding Room Phase: L1 Limit: FCC Part 15C Conduction(QP) Power: AC 120 V/60 Hz Correct Deeding Magaura

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	41.41	9.60	51.01	66.00	-14.99	QP	
2		0.1500	24.41	9.60	34.01	56.00	-21.99	AVG	
3		0.6340	29.23	9.19	38.42	56.00	-17.58	QP	
4		0.6340	12.68	9.19	21.87	46.00	-24.13	AVG	
5		1.6580	25.16	9.40	34.56	56.00	-21.44	QP	
6		1.6580	4.84	9.40	14.24	46.00	-31.76	AVG	
7		4.3500	20.69	9.56	30.25	56.00	-25.75	QP	
8		4.3500	0.63	9.56	10.19	46.00	-35.81	AVG	
9		11.1580	27.61	9.62	37.23	60.00	-22.77	QP	
10		11.1580	13.06	9.62	22.68	50.00	-27.32	AVG	
11		24.6299	20.62	9.82	30.44	60.00	-29.56	QP	
12		24.6299	6.97	9.82	16.79	50.00	-33.21	AVG	

Note:

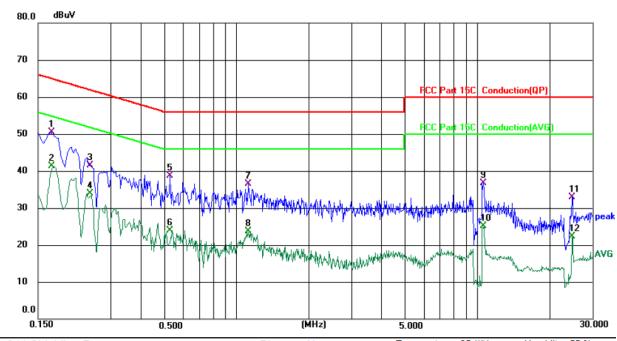
Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

Site 844 Shielding RoomPhase: NTemperature: 25 (°C)Humidity: 55 %

Lim	it: FC	C Part 15	C Conduct	ion(QP)			Power: AC 120 V/60 Hz					
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over					
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment			
1		0.1700	40.88	9.56	50.44	64.96	-14.52	QP				
2	*	0.1700	31.73	9.56	41.29	54.96	-13.67	AVG				
3		0.2455	32.26	9.33	41.59	61.91	-20.32	QP				
4		0.2455	24.52	9.33	33.85	51.91	-18.06	AVG				
5		0.5299	29.55	9.22	38.77	56.00	-17.23	QP				
6		0.5299	14.63	9.22	23.85	46.00	-22.15	AVG				
7		1.1220	27.25	9.31	36.56	56.00	-19.44	QP				
8		1.1220	14.39	9.31	23.70	46.00	-22.30	AVG				
9		10.6140	27.07	9.62	36.69	60.00	-23.31	QP				
10		10.6140	15.42	9.62	25.04	50.00	-24.96	AVG				
11		24.7658	23.14	9.82	32.96	60.00	-27.04	QP				
12		24.7658	12.41	9.82	22.23	50.00	-27.77	AVG				

Note:

Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak AVG =average

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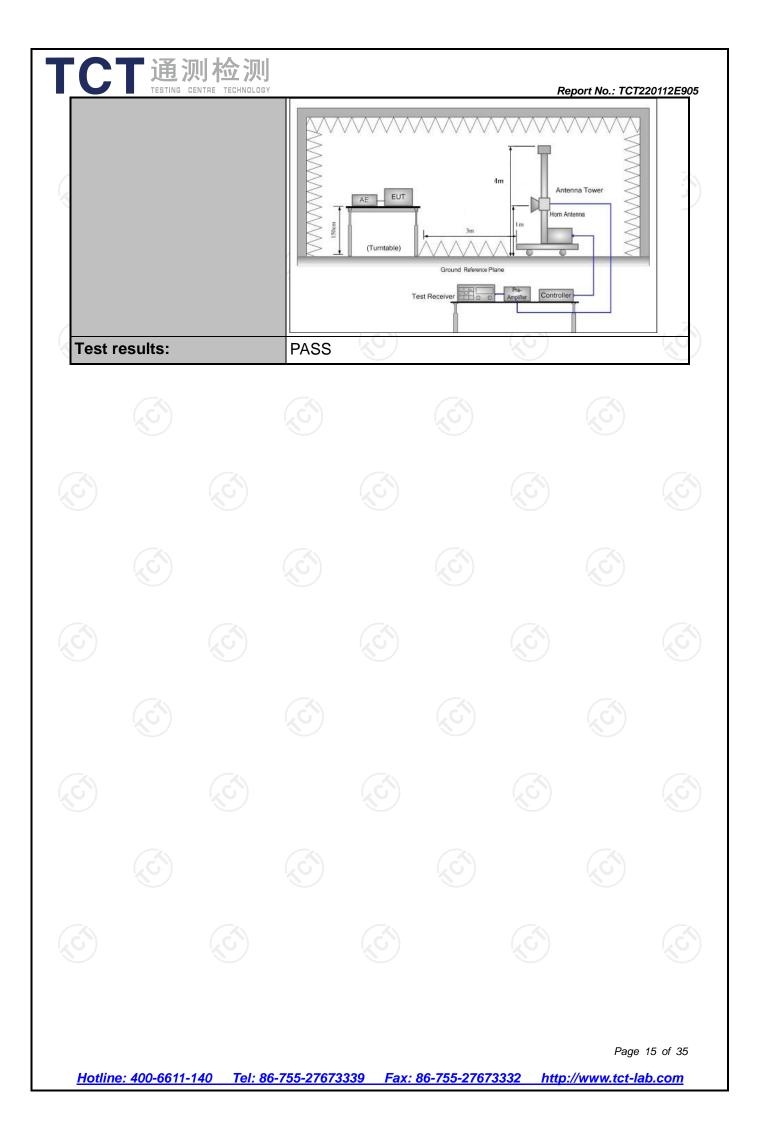
* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

5.3. Radiated Emission Measurement

5.3.1. Test Specification

Test Requirement:	FCC Part15	5 C Section	15,209				
Test Method:	ANSI C63.1		110.200		0		
Frequency Range:	9 kHz to 25	GHz					
Measurement Distance:	3 m						
Antenna Polarization:	Horizontal & Vertical						
	Frequency	Detector	RBW	VBW	Remark		
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
-	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	Above IGI12	Peak	1MHz	10Hz	Average Value		
imit/Field strength of the	Freque	ency	Limit (dBu	V/m @3m)	Remark		
Limit(Field strength of the fundamental signal):	2400MHz-24		94.	1	Average Value		
fundamental signal):	2400IVIHZ-24	483.5IVIHZ	114	.00	Peak Value		
	Freque	ency	Limit (dBu	//m @3m)	Remark		
	0.009-0		2400/F		Quasi-peak Value		
.imit(Spurious Emissions):	0.490-		24000/		Quasi-peak Value		
	1.705		3		Quasi-peak Value		
	30MHz-8		40	.0	Quasi-peak Value		
	88MHz-2	16MHz	43	.5	Quasi-peak Value		
	216MHz-9	960MHz	46	.0	Quasi-peak Value		
	960MHz	-1GHz	54	.0 0	Quasi-peak Value		
	Above	1647	54	.0	Average Value		
		_	74	-	Peak Value		
Limit (band edge) :	bands, exc least 50 dB general rae whichever i	ept for har below the diated em s the lesse	monics, s level of t ission lir r attenua	shall be a he funda nits in S tion.	cified frequenc attenuated by a mental or to the Section 15.209		
Test Procedure:	meters below 1GHz. determin 2. The E interfere on the to 3. The ante meters a value of	above the 1GHz, 1.5 The table ne the posi UT was ence-receiv op of a vari enna heigh above the g of the field	ground a m above tion of the set 3 r ring anter iable-heig t is varied ground to d strengt	at a 3 m e the gr otated 3 e highest neters a na, whic ght anten d from or determir h. Both	eter chamber in ound in above 60 degrees to radiation. away from the ch was mounted		

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	 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	For radiated emissions below 30MHz
	Distance = 3m Computer Pre -Amplifier Pre -Amplifier Receiver Ground Plane 30MHz to 1GHz
Test setup:	EUT Turn Berton Cound Plane
	Above 1GHz
	(The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)



5.3.2. Test Instruments

	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Mar. 11, 2022
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Apr. 08, 2022
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

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5.3.3. Test Data

Field Strength of Fundamental

The test data refer to the test report No. XM21010003W01

Spurious Emissions

Frequency Range (9 kHz-30MHz)

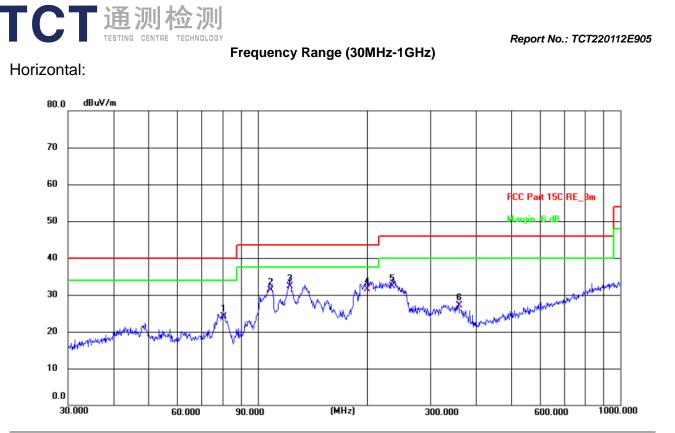
Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
<u> </u>		
(k)		
		(C) (C)

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

- 2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.
- 3. For fundamental frequency, RBW >20dB BW , VBW>=RBW, PK detector is for PK value, RMS detector is for AV value.



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	2 3m Anechoi FCC Part 150		r	Polariz	ation: Ho Pov	o <mark>rizonta</mark> wer: AC	Femperature: 25.3(C)	Humidity: 50 %		
No.	Frequency (MHz)	_ Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
1	80.3619	14.88	9.32	24.20	40.00	-15.80	QP	Ρ		
2	108.2667	20.27	11.03	31.30	43.50	-12.20	QP	Ρ		
3 *	122.4040	20.29	12.11	32.40	43.50	-11.10	QP	Ρ		
4	199.9856	21.22	10.28	31.50	43.50	-12.00	QP	Ρ		
5	234.9909	19.86	12.44	32.30	46.00	-13.70	QP	Ρ		
6	357.9287	11.42	15.78	27.20	46.00	-18.80	QP	Ρ		

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Site #2 3m Anechoic Chamber

Polarization: Vertical

Temperature: 25.3(C) Humidity: 50 %

Limit:	FCC Part 150	CRE_3m			Pov				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	44.9006	20.91	13.89	34.80	40.00	-5.20	QP	Ρ	
2	81.7833	20.90	9.30	30.20	40.00	-9.80	QP	Ρ	
3	116.1321	21.85	11.65	33.50	43.50	-10.00	QP	Ρ	
4	135.0319	22.28	12.92	35.20	43.50	-8.30	QP	Ρ	
5	197.2001	21.48	10.42	31.90	43.50	-11.60	QP	Ρ	
6	219.8449	21.18	11.42	32.60	46.00	-13.40	QP	Ρ	

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (Highest channel) was submitted only.



Report No.: TCT220112E905 Above 1GHz Low channel: 5750MHz AV Correction **Emission Level** Peak Frequency Ant. Pol. (MHz) H/V Peak limit AV limit Margin reading reading Factor Peak AV (dBµV/m) (dBµV/m) (dB) (dBµV) (dBuV (dB/m) (dBµV/m)|(dBµV/m) 11500 49.97 -3.94 46.03 74 -7.97 Н ---54 ---17250 Η 44.22 0.52 44.74 74 -9.26 ------54 ---------------------------------11500 V 50.62 -3.94 46.68 74 54 -7.32 ___ ----9.37 17250 V 44.11 0.52 44.63 74 54 -4-<u>.</u> --------------------------------

				Ν	liddle chann	el: 5830M	Hz			
	Frequency	Ant Pol	Peak	AV	Correction	Emissic	on Level	Peak limit	A\/ limit	Margin
	(MHz)	H/V	reading	reading	Factor	Peak	AV		(dBµV/m)	
	(101112)	I I/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(ubµ v/m)	(ubµ v/m)	(UD)
	11660	Н	49.84		-3.98	45.86		74	54	-8.14
	17490	Н	43.15		0.57	43.72		74	54	-10.28
					·	(
				N.)					
	11660	V	49.72		-3.98	45.74	<u> </u>	74	54	-8.26
	17490	V	43.56		0.57	44.13		74	54	-9.87
ĺ.	\mathbf{G}		(\mathbf{G})		(.6			(\mathbf{G})		(.6)

		(\mathbf{G})		(.0			(\dot{G})		$(\dot{\mathbf{G}})$	
High channel: 5850MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
11700	Н	51.14		-3.98	47.16		74	54	-6.84	
17550	Н	45.72		0.57	46.29	5	74	54	-7.71	
11700	V	49.34		-3.98	45.36		74	54	-8.64	
17550	V	44.17		0.57	44.74		74	54	-9.26	
					/					

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

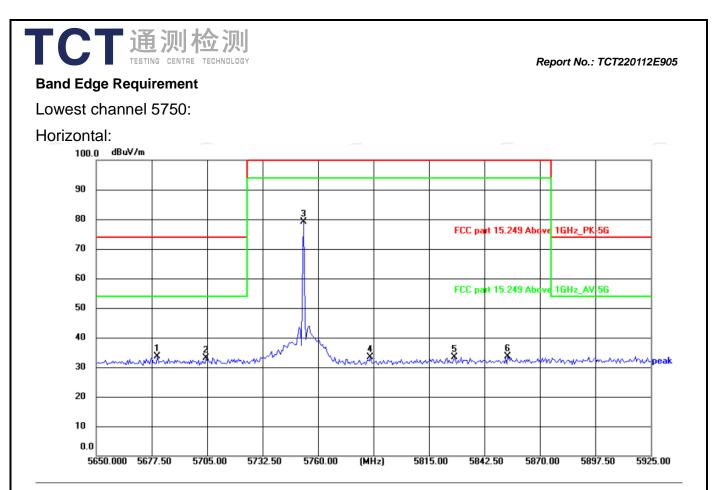
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

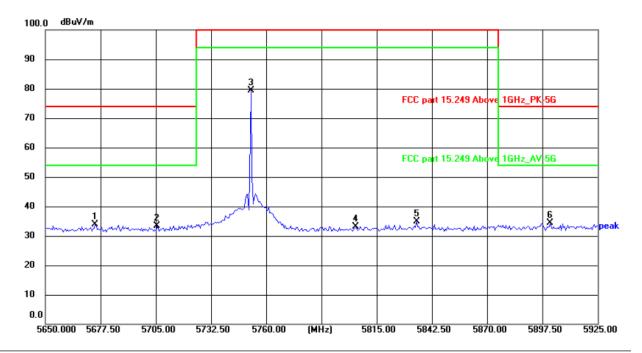
6. All the restriction bands are compliance with the limit of 15.209.



Site					Polari	ization:	Horizo	ontal	Temperature: 24(℃)
Limit:	FCC part 15.	249 Above	1GHz_P	<-5G	Powe	r:			Humidity: 52 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5680.250	41.40	-7.66	33.74	74.00	-40.26	peak	Р	
2	5704.450	40.64	-7.59	33.05	74.00	-40.95	peak	Ρ	
3 *	5752.850	86.49	-7.47	79.02	114.00	-34.98	peak	Ρ	
4	5785.850	40.87	-7.39	33.48	114.00	-80.52	peak	Ρ	
5	5827.650	40.64	-7.28	33.36	114.00	-80.64	peak	Ρ	
6	5854.050	40.92	-7.21	33.71	114.00	-80.29	peak	Ρ	
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Vertical:



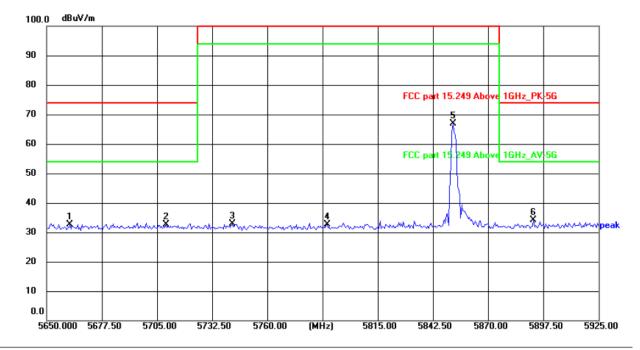
Site					Polari	zation:	Vertica	a/	Temperature: 24(°C)
Limit:	FCC part 15.2	249 Above	1GHz_PK	(-5G	Power	r:			Humidity: 52 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5674.750	41.64	-7.68	33.96	74.00	-40.04	peak	Ρ	
2	5705.550	40.92	-7.59	33.33	74.00	-40.67	peak	Ρ	
3 *	5752.300	86.75	-7.47	79.28	114.00	-34.72	peak	Ρ	
4	5804.550	40.46	-7.34	33.12	114.00	-80.88	peak	Ρ	
5	5834.800	42.04	-7.26	34.78	114.00	-79.22	peak	Ρ	
6	5901.350	41.42	-7.09	34.33	74.00	-39.67	peak	Ρ	

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Highest channel 5850:

Horizontal:

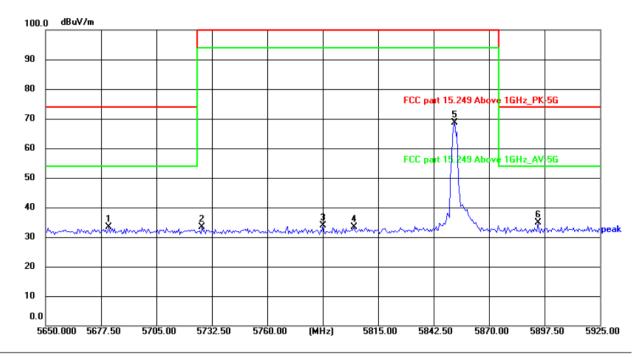


Site Limit: FCC part 15.249 Above 1GHz_PK-5G					Polarization: Power:		Horizontal		Temperature: 24(℃) Humidity: 52 %		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark		
1	5661.550	40.39	-7.70	32.69	74.00	-41.31	peak	Р			
2	5709.400	40.28	-7.59	32.69	74.00	-41.31	peak	Р			
3	5742.400	40.47	-7.49	32.98	114.00	-81.02	peak	Р			
4	5789.700	39.99	-7.38	32.61	114.00	-81.39	peak	Р			
5	5852.400	73.98	-7.21	66.77	114.00	-47.23	peak	Ρ			
6 *	5892.550	41.32	-7.12	34.20	74.00	-39.80	peak	Ρ			
				<u> </u>			- P.		<u> </u>		

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Vertical:



Site					Polari	zation:	Vertica	a/	Temperature: 24(°C)
Limit:	FCC part 15.2	249 Above	1GHz_PK	(-5G	Power	r:			Humidity: 52 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5681.350	40.93	-7.66	33.27	74.00	-40.73	peak	Ρ	
2	5727.550	41.01	-7.54	33.47	114.00	-80.53	peak	Ρ	
3	5787.500	41.26	-7.38	33.88	114.00	-80.12	peak	Ρ	
4	5802.900	40.60	-7.34	33.26	114.00	-80.74	peak	Ρ	
5	5852.950	75.82	-7.21	68.61	114.00	-45.39	peak	Ρ	
6 *	5894.200	41.98	-7.12	34.86	74.00	-39.14	peak	Ρ	

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5.4. 20dB Occupied Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test results:	PASS

5.4.2. Test Instruments

Equip Spectrum		Manufacturer R&S	Model FSU	Serial Nu 20005		alibration		
Spectrum	Analyzer	R&S	FSU	20005	4	Jul 18 20		
9				200054		Jul. 18, 2022		
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Report No.: TCT220112E905 5.4.3. Test data The test data refer to the test report No. XM21010003W01 Page 26 of 35





