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TEST REPORT

FCC ID: 2AR7Q-E01003

Product: Remote Control

Model No.: E01003

Additional Model No.: N/A

Trade Mark:

Report No.: FCC18120074A-U-NII

Issued Date: Mar. 19, 2019

Issued for:

ShenZhen C-Fly Intelligent Technology Co.,Ltd

6th Floor,A1 building,New Modern GongRong Industrial Zone,ShiHuan 2nd
Rd,ShiLong commiunity,ShiYan street,Ban'an District,ShenZhen City

Issued By:

World Standardization Certification & Testing Group Co., Ltd.

Building A-B, Baoshi Science & Technology Park, Baoshi Road,

Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-26996192

FAX: +86-755-86376605

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1. GENERAL INFORMATION

Product:	Remote Control
Model No.:	E01003
Trade Mark	FLY A
Additional Model:	N/A WSET WSET WSET
Applicant:	ShenZhen C-Fly Intelligent Technology Co.,Ltd
Address:	6th Floor,A1 building,New Modern GongRong Industrial Zone,ShiHuan 2nd Rd,ShiLong commiunity,ShiYan street,Ban'an District,ShenZhen City
Manufacturer:	ShenZhen C-Fly Intelligent Technology Co.,Ltd
Address:	6th Floor,A1 building,New Modern GongRong Industrial Zone,ShiHuan 2nd Rd,ShiLong commiunity,ShiYan street,Ban'an District,ShenZhen City
Data of receipt:	Dec. 25, 2018
Date of Test:	Dec. 25, 2018 to Mar. 07, 2019
Applicable Standards:	FCC Rules Part15 Subpart E
The charge acres	ment has been tested by World Standardization Cartification & Testing Group

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Pu Shixi
(Pu Shixi)

Date: Mar. 19, 2019

Bin Shuiguan

e: Mar. 19, 2019

(Qin Shuiquan)

Dat

Approved By: (Wang Fengbing)

Check By:

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1.1 GENERAL DESCRIPTION OF EUT

		www.wsccom	1
Ć	Equipment Type:	Remote Control WSET WSET	1
	Test Model:	E01003	
	Additional Model:	N/A	
	Trade Mark	FLYA	
	Hardware version:	280_Remote_Control_V1.2_180920	
	Software version:	FLY_RC_SMART_V1.01_20180705 W5	7
	Extreme Temp. Tolerance:	-10℃ to +55℃	
_	Battery information:	Secondary Lithium Battery Pack Model No: 18650 Nominal Voltage: 3.7V Rated Capacity: 2600mAh Max Charge Voltage: 4.2V	
1	Adapter Information:	NA WSET WSET	7
	Operating Frequency	5190Mhz	
	Channels	WSET WSET WSET	
	Modulation Type	OFDM	1
	Antenna Type:	External antenna	
1	Antenna gain:	2.65dBi 5	7
	Deviation	None	
	Condition of Test Sample	Normal	

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1.2 EUT SPECIFICATION:

1					WWW.WSCI-C	ert
/	5CT Items W5	W5ET Descrip	tion	15ET		T
	Modulation	IEEE 802.11n: see the below table				
	Data Modulation	IEEE 802.11n: OFDM (BPSK / QPSK / 1	6QAM / 64Q	AM) W5	CT.	
\	Data Rate (Mbps)	IEEE 802.11n: MCS 0-15 up to 150 Mbps	3			1
	Frequency Range	5190 MHz				
-	Channel Number	1 for 40MHz bandwidth;	4			4
2	Communication Mode	☑IP Based (Load Based)	Frame	Based		L
	TPC Function	□With TPC	⊠Without	TPC		
	Weather Band	☐With 5600~5650MHz	Without	: 5600~5650MHz		
	Beamforming Function	☐With beamforming	⊠Without	beamforming		
	Operating Mode	Outdoor access point	☐Indoor a	access point		
\		☐Fixed point-to-point access points	⊠Mobile	and portable client	devices	
	\times	☐Master	☐Slave w	ith radar detection		
/		☐Slave without radar detection				1
7	SET WS	CT WSCT		VSET°		1
	Antenna	One (TX)				

\ /	Protocol	Number of Transmit Chains (NTX)	Data Rate / MCS
V	802.11n (HT40)	1	MCS 0-15

40 MHz

٧

Note 1: IEEE Std. 802.11n modulation consists of HT40.

Then EUT supports HT40.

Band width Mode

IEEE 802.11n

Note 2: Modulation modes consist of below configuration: HT40: IEEE 802.11n

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TESTING R



2.FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are localed at 42-0

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Guangdong, China of the World Standardization Certification & Testing Group Co., Ltd. WWW.WSCT-Cert.com

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

Registration Number: 366353

2.1 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA
NVLAP (The certificate registration number is NVLAP LAB CODE:600142-0)
VCCI (The certificate registration number is C-4790, R-3684, G-837)

Canada INDUSTRY CANADA

(The certificated registration number is 7700A-1)

China CNAS (The certificated registration number is L3732)

Copies of granted accreditation certificates are available for downloading from our web site,

http://www.wsct-cert.com

	WSET	WSET	WSET	WSET	WSET
X			\times	X	\times
WSET	WS	ET N	TSET .	WSET	WSET
	WSLT	WSET	WSET	WSET	WSET
WSU			SET	WSET	WSET
	WSET	WSET	WSET	WSET	
WSG			(SET)	WSET	WSET
	\times	WSET	WSET	WSET	
andardization,	Certification & Penning Group		/SET	WSET	WSET

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3.TEST DESCRIPTION

3.1MEASUREMENT UNCERTAINTY

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

No. Item Uncertainty 1 Conducted Emission Test ±3.2dB 2 RF power,conducted ±0.16dB 3 Spurious emissions,conducted ±0.21dB	
1 Conducted Emission Test ±3.2dB 2 RF power,conducted ±0.16dB	
2 RF power,conducted ±0.16dB	X
AVIGET AVIGET	
	WSET"
4 All emissions,radiated(<1G) ±4.7dB	
5 All emissions,radiated(>1G) ±4.7dB	
W5CT ±0.5°C'5CT W5CT	
7 Humidity ±2%	
WSET WSET WSET WSET	WSET
WSET WSET WSET WSET	
WSET WSET WSET WSET	WSET
WSET WSET WSET WSET WSET	
WSET WSET WSET WSET	WSET
WSET WSET WSET WSET	
Certification & WSET WSET WSET	W5ET°
WSET WSET WSET	
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3.2 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	4
	Mode 1	802.11n40	
X		× × ×	

For Conducted Emission			
Final Test Mode	Description		
Mode 1	802.11n40		

7///22	For Radiated	Emission	7777
Final Test Mode		Description	
Mode 1	777	802.11n40	WSCT

Note:

- (1) The measurements are performed at the highest, lowest available channels.
- (2) The EUT use new battery.
- (3) Record the worst case of each test item in this report.
- (4)When we test the equipment, duty cycle≥98%.

	W5ET°	WSET	WSET	WSET	WSET
\rightarrow	$\langle \rangle$				
W51	WSL	WS	W	ET WS	CT
	\times	\times	\times	\times	\times
	WSET	WSET	WSET	WSET	W5ET°
_WS	WSL	7° W5		TET WE	
	certification	WSET	WSET	WSET	WSET
	COMMODITION OF				

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esting Group Co.,Ltd.







3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

Please Contact with WSCT During testing channel & power controlling software provided by the customer was used v.t. Got-cert.com control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the

firmware of the final end product power parameters of FHSS

Test Software		N/A
	MANGER	Test Frequency (MHz)
E	Mode	NCB: 40MHz
`	802.11n MCS0 VHT40	5190MHz
	D OI I ID	

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

W5ET W	SET WSET	WSCT	WSET	,
WSET	WSET	X	\times	WSCT
\times	SET WSET		WSET	,
WSET	WSET	\times	W5CT	WSET
W5ET W	SET WSET	W5ET*	WSET	
WSLT	WSET	WSET	W5ET	WSET
\times	SET WSET		WSLT	
\times	W5CT*		WSET	WSET
World Standard zation Certification of Testing	SET WSET		WSET	
World Standard Zation Certification & Testin		cience & technology Park, Baoshi Road, 26996145/26996192 FAX:86-755-86376605 E-mail	NAME AND ADDRESS OF TAXABLE PARTY.	ng, China ct-cert.com

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3.4 CONFIGURATION OF SYSTEM UNDER TEST

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EUT

(EUT: Remote Control)

I/O Port of EUT				
I/O Port Type	Q'TY	Cable	Tested with	
Cable	WSCT	Cable, unshielded	WSCT.	
Power	1	1m	1	

3.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

_		THE REPORT OF THE PARTY NAMED IN COLUMN 1	The state of the s	THE AS ANY ADDRESS ASSESSMENT		THE REAL PROPERTY AND ADDRESS OF
	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	Adapter	1	H01002	1	/

Note:

- The support equipment was authorized by Declaration of Confirmation. (1)
- (2)For detachable type I/O cable should be specified the length in cm in "Length column.
- "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core". (3)
- The adapter supply by the applicant.

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4.SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	Total procedures decorating to the test mean started do			
FCC Part15 Subpart C&E				
Standard Test Item		Test Item	Judgment	Remark
	2.1049 15.403(i)	26dB & 99% Bandwidth	PASS	Complies
	15.407(e)	6dB Spectrum Bandwidth	PASS	Complies
1	15.407(a)	Maximum Conducted Output Power	PASS	Complies
	15.407(a)	Power Spectral Density	PASS	Complies
	15.407(b) 5 7 7°	Unwanted Emissions	5 PASS	Complies
	15.207	AC Conducted Emission	N/A	N/A
	W5 15.407(g)	Frequency Stability	PASS /5/	Complies
	15.203 & 15.407(a)	Antenna Requirement	PASS	Complies

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

VSET WSET WSET WSET WSET

WSCT WSCT WSCT WSCT WSCT

WSET WSET WSET WSET

WSCT WSCT WSCT

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5. MEASUREMENT INSTRUMENTS

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_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATI ON DUE.	5
	EMI Test Receiver	R&S	ESCI	100005	10/28/2018	10/29/2019	
	LISNW5E7	AFJ WS	LS16	16010222119	10/28/2018	10/29/2019	
	LISN(EUT)	Mestec	AN3016	04/10040	10/28/2018	10/29/2019	>
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	10/28/2018	10/29/2019	
_	Coaxial cable	Megalon	LMR400	N/A	10/28/2018	10/29/2019	9
	GPIB cable	Megalon	GPIB	N/A	10/28/2018	10/29/2019	
\	Spectrum Analyzer	R&S	FSU	100114	10/28/2018	10/29/2019	
	Pre Amplifier	H.P.	HP8447E	2945A02715	03/24/2018	03/23/2019	
	Pre-Amplifier	CDSI	PAP-1G18-38		03/24/2018	03/23/2019	>
	Bi-log Antenna	SUNOL Sciences	JB3	A021907	10/28/2018	10/29/2019	5
	9*6*6 Anechoic	-	/		06/04/2018	06/03/2019	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	<u></u>	10/28/2018	10/29/2019	
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	10/28/2018	10/29/2019	
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	10/28/2018	10/29/2019	1
	System-Controller	ccs	N/A	N/A	10/28/2018	10/29/2019	
/	W5 Turn Table	ccs	N/A'557	N/A	10/28/2018	10/29/2019	
	Antenna Tower	ccs	N/A	N/A	10/28/2018	10/29/2019	
	RF cable	Murata	MXHQ87WA3000		10/28/2018	10/29/2019	
	Loop Antenna	EMCO	6502	00042960	10/28/2018	10/29/2019	
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	10/28/2018	10/29/2019	1
	Power meter	Anritsu	ML2487A	6K00003613	10/28/2018	10/29/2019	
_	Power sensor	Anritsu	MX248XD		10/28/2018	10/29/2019	

T WSET WSET WSET WSET

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6. EMC EMISSION TEST

6.1 CONDUCTED EMISSION MEASUREMENT

6.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Conducted	limit (dBµV)	Conducted
FREQUENCT (IVIDZ)	Quasi-peak	Quasi-peak	limit (dBµV)
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz





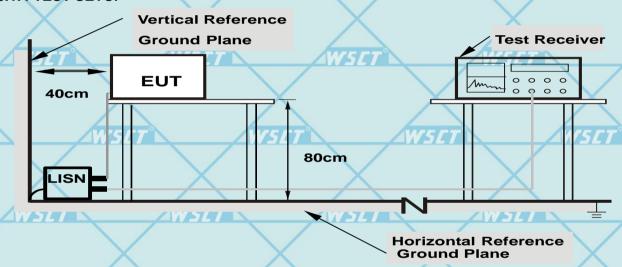
6.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

6.1.3 DEVIATION FROM TEST STANDARD

No deviation

6.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

6.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.









6.1.6TEST RESULTS

	X		X		X	X		lestion, lct with WSCT t-cert.com
	Not applicabl	e. Due to this p	product is sup	plied by batter	ry.	WSET		WSET
∠W5L	7	WSET	W	SET	W51	7	WSET	$\overline{}$
	X		X		X	X		X
	WSET		NSET.	W-	ET	WSET		WSET
\rightarrow		\times		\times	\rightarrow		\times	
WSL	7	WSET		SET	W51	7	WSET	
	X		\times		<	\times		\times
	WSET		NSET .	W	SET	WSET		WSET
\geq		X		\times	\geq		X	
_W5L	7	WSET N	W	SET	W5L	7	WSET	/
			X			X		X
	W5ET*		WSET*	W	SET°	WSET		AWSET N
\geq			_	X	\sim		X	
ZW51		WSCT	, In	F191	W-51		WSET	
X			X			X		λ
	WSET		WSET*	W.	SET°	WSET		AWSET [®]
\geq		X	_	X	\sim		X	
_W51		AWSET*	N N	ISET "	W51		WSET	/
	X		X		\times	X		X
	Certification &		WSET	W	SET	WSET		AWSET®
dardiza	W5ET	Group VSET	6	1541	WS		WSIT	
	notification Certification	世标检测认证股份				hi Road, Bao'an Distric 605 E-mail:Fengbing.Wang		dong, China
World Sta	No plantin Certification	resting Group Co.,Ltd.	. 22.00 / 50-20000 140		VIII.30-100-00310	SSS E main ongoing. Wang	Marsh fil	NOCTING





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6.2 RADIATED EMISSION MEASUREMENT

6.2.1Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

٠.	lovou.		
	Frequencies	Field Strength	Measurement Distance
	(MHz)	(micorvolts/meter)	(meters)
	0.009~0.490	2400/F(KHz)	300
	0.490~1.705	24000/F(KHz)	30
	1.705~30.0	30	30
4	30~88	100	3
	88~216	150	3
	216~960	200	3
	Above 960	500	3 W5

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBu\	//m) (at 3M)
PREQUENCT (MIDZ)	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter		Setting
	Attenuation	Auto
	Start Frequency	5 <i>CT</i> W 51000 MHz W 5 <i>CT</i>
	Stop Frequency	10th carrier harmonic
6	RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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- **6.2.2 TEST PROCEDURE**
- Please Contact with WSCT a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz.wsct-cert.com For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

6.2.3 DEVIATION FROM TEST STANDARD

No deviation

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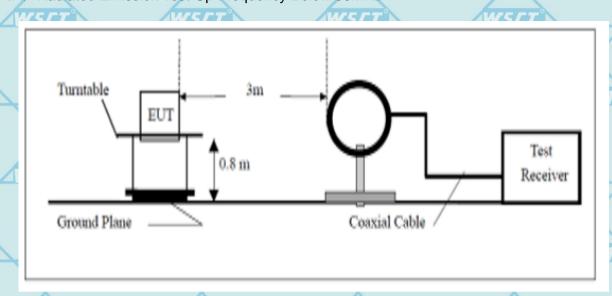




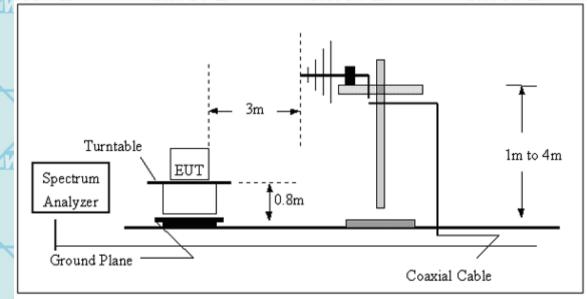
For Question,
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6.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz

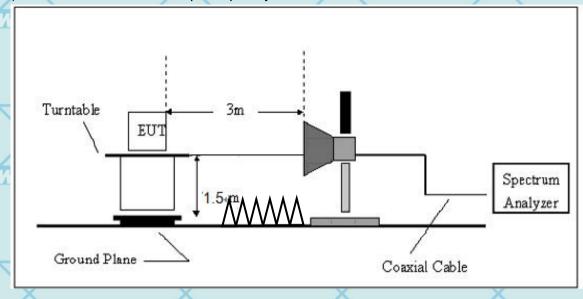


WSET WSET WSET WSET





(C) Radiated Emission Test-Up Frequency Above 1GHz



6.2.5 EUT OPERATING CONDITIONS

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The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

WSET	WSET	WSET	WSET	WSET
WSL		SET WS	$\langle \hspace{0.1cm} \rangle$	$\langle \times$
WSET	WSET	WSET	WSET	WSET
WSL		SET WS		
WSET	WSET	WSET	WSET	W5ET*
\rightarrow		SET WS		X
Certification WSET	Programme WSCT	WSET	WSET	WSET

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6.2.5.1 RESULTS (Below 30 MHz)

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A	Temperature	20 °C	WEE	Relative Humidity	48%	(A)
	Pressure	1010 hPa		Polarization		
	Test Mode	Mode 1	\vee			

Freq.	Reading	eading Limit		State	
(MHz)	(dBuV/m)	(dBuV/m) (dB)		P/F	
	/- -		/	Р	
WSET -	WSET	WSET	WSE	P	

NOTE:

No result in this part for margin above 20dB.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

WSET	WSET	WSET	WSET	WSET
	W5ET W5E			
WSET	WSLT	WSET	WSET	WSET
	W5ET WSE	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	
WSET	WSET	WSET	WSET	WSET
X	W5ET WSE			
X	WSET	WSET	W5ET	WSET
Certification & Personal Control of the Control of				

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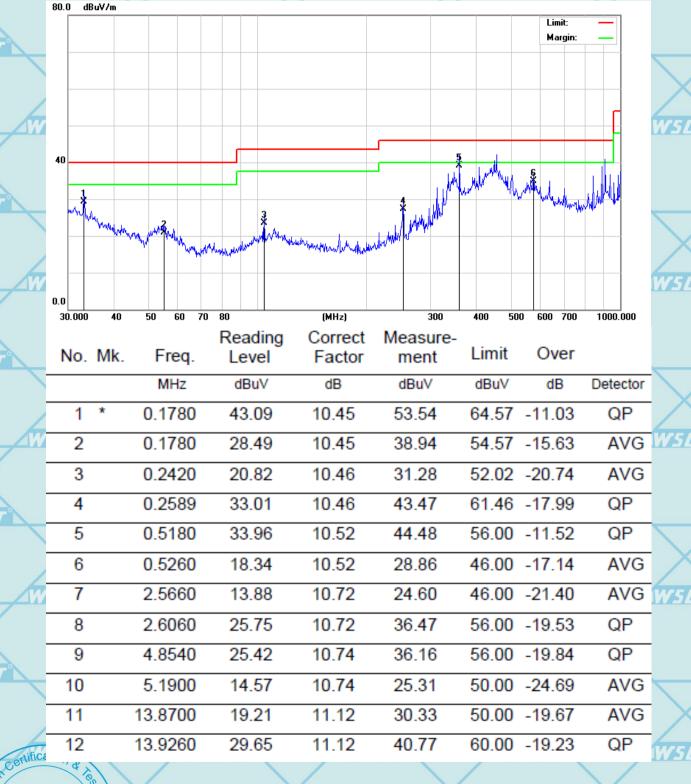




6.2.5.2 TEST RESULTS (Between 30M - 1000 MHz

•	I INCOULTO (Detweet	1 30W - 1000 WITE		
	Temperature	20 ℃	Relative Humidity	48%
	Pressure	1010 hPa	Polarization :	Horizontal
	Test Mode	Mode 1	A.	

se Contact with WSCT www.wsct-cert.com



Remark: All the modes have been investigated, and only worst mode is presented in this report.

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Temperature 20 °C Relative Humidity 48% Please Contact with WSCT www.wsct-cert.com

Pressure 1010 hPa Polarization: Vertical

Test Mode Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE REAL PROPERTY.
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	33.2112	26.55	3.57	30.12	40.00	-9.88	QP
2	4	54.4516	28.33	-5.55	22.78	40.00	-17.22	QP
/3		111.7380	21.08	-2.03	19.05	43.50	-24.45	QP
4		167.8243	24.68	-6.32	18.36	43.50	-25.14	QP
14.5	4	360.4476	33.49	-1.44	32.05	46.00	-13.95	QP
6		638.3686	33.21	1.71	34.92	46.00	-11.08	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

WSCT WSCT WSCT WSCT

W5C7 Certification & Regulation of the Certification of the Certificati







6.2.5.3 TEST RESULTS (1GHz to 40GHz)

			<u> </u>	Please Contact with WS	CT
,	Temperature	20 ℃	Relative Humidity	48% www.wsct-cert.com	
A	Pressure	1010 hPa 7°	Test Mode	Mode 1TX	<i>C1</i>
	Frequency	5190MHz			

Freq.	Ant.Pol.	Emission		Limit		Over(dB)	
(MHz)	SET	Level(dBuV)	3m(dBu)	V/m)		MELT
	H/V	PK	AV	PK	AV	PK	AV
10380	V	58.18	41.86	68.2	54	-10.02	-12.14
15570	V	58.61	40.55	68.2	54	-9.59	-13.45
10380	H	58.98	39.69	68.2	54	-9.22	-14.31
15570	H	58.41	40.34	68.2	54	-9.79	-13.66

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

	WSET	WSET	WSET	WSET	WSET
WSCT	WSE	$\langle \hspace{0.1cm} \rangle$			
	WSET	WSLT	WSET	WSET	WSET
WSCT	WSE	$\langle \rangle$	$\langle \hspace{0.1cm} \rangle$		CT .
	WSET	WSLT	WSET	WSET	WSET
WSET	WSE	$\langle \hspace{0.1cm} \rangle$			CT.
	X	WSET	WSET	WSLT	WSET
in Ce	rtification & Roam				

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7. ANTENNA APPLICATION

7.1 ANTENNA REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and FCC part 15C section 15.407.

FCC part 15C section 15.203 and FCC part 15C section 15.407 requirements: Systems operating in the 5150~5850MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.



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8 FCC PART 15.407 REQUIREMENTS FOR 802.11A/N SYSTEMS FOR Question, Secondary with WSCT

8. 1 TEST EQUIPMENT

Please refer to Section 5 this report.

8. 2 TEST PROCEDURE

26dB Bandwidth	and 99% Occupied Bandwidth:
Test Method:	a)The transmitter was radiated to the spectrum analyzer in peak hold mode.
	b)Measure the maximum width of the emission that is 26 dB down from the peak of
	the emission Compare this with the RBW setting of the analyzer. Readjust RBW

the emission Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement asneeded until the RBW/EBW ratio is approximately 1%.

Test Equipment Setting – 26dB Bandwidth:

Test Equipment Setting – 99%% Bandwidth:

Test Equipment Setting – 26dB Bandwidth:

a)Attenuation: Auto
b)Span Frequency: > 26dB Bandwidth
b)RBW: 1 % to 5 % of the OBW
b)RBW: 1 % to 5 % of the OBW

c)RBW: Approximately 1% of the emission bandwidth
d)VBW: VBW > RBW
e)Detector: Peak
e)Trace: Max Hold
c)VBW: ≥ 3 x RBW
d)Detector: Peak
e)Trace: Max Hold

g)Sweep Time: Auto 6 dB Bandwidth:

Test Method: a)The transmitter was radiated to the spectrum analyzer in peak hold mode.

b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (C) Emission Bandwidth.

c)Multiple antenna system was performed in accordance with KDB662911 D01 v02r01 Emissions

Testing of Transmitters with Multiple Outputs in the Same Band.

d)Measured the spectrum width with power higher than 6dB below carrier.

Test Equipment Setting:

a)Attenuation: Auto
e)Detector: Peak
b)Span Frequency: > 6dB Bandwidth
f)Trace: Max Hold

c)RBW: 100kHz
d)VBW: ≥ 3 x RBW

Maximum Conducted Output Power Measurement:

Test Method: a)The transmitter output (antenna port) was connected to the power meter.

b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (E) Maximum conducted output power =>3. Measurement using a Power Meter (PM) =>b) Method PM-G (Measurement using a gated RF average power meter).

c)Multiple antenna systems was performed in accordance with KDB662911 D01 v02r01 Emissions

Testing of Transmitters with Multiple Outputs in the Same Band.

d)When measuring maximum conducted output power with multiple antenna systems,add every resultof the values by mathematic formula.

Test Equipment Setting: Detector - Average

Power Spectral Density:

Test Method: a)The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.

b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD).

c)Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power

Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the

d)When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first frequency bin of the summed spectrum. The summed spectrum value for each of the other frequency bins is computed in the same way.

Test Equipment Setting:

a) Attenuation: Auto

b)Span Frequency: Encompass the entire emissions bandwidth (EBW) of

f)Trace: AVERAGE g)Sweep Time: Auto h)Trace Average: 100 times

e)Detector: RMS

the signal c)RBW; 1000 kHz

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NVLAD®



d)VBW: 3000 kHz

Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 100g(500kHz/RBW) tottle measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of thespectrum analyzer set during measurement.

t For Question,
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Frequency Stability Measurement:

Test Method:

a)The transmitter output (antenna port) was connected to the spectrum analyzer.

b)EUT have transmitted absence of modulation signal and fixed channelize.

c)Set the spectrum analyzer span to view the entire absence of modulation emissions

bandwidth.

d)Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.

e)fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 106$

ppm and

the limit is less than ±20ppm (IEEE 802.11nspecification).

f)The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of

the

nominal value

g)Extreme temperature is 0°C~40°C

e)Sweep Time: Auto

Test Equipment Setting:

a)Attenuation: Auto

b)Span Frequency: Entire absence of modulation emissions bandwidth

c)RBW: 10 kHz

d)VBW: 10 kHz

8. 2.1 Test Setup

EUT

Attenuator

SPECTRUM ANALYZER

8. 2.2 Configuration of the EUT

Same as section 3.4of this report

8. 2.3 EUT Operating Condition

Same as section 3.2of this report.

AWSET"

WSET

AWSET

AWSET

AWSET

ZWSE1

WSET

WSET

4W5C7

AWSET

WSET

WSIT

WELT

WELT

AWSIT

WSET

WSIT

WSFT

WSFT

WSIT

WSFT

Gertification & Paging Go

4W3LI

1W5E7

WELT

4W5E7

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26dB Bandwidth and 99% Occupied Bandwidth: NVLAP LAB CODE 600142-0 No restriction limits. For Question I imit Please Contact with WSCT Test Equipment Setting: ww.wsct-cert.com e)Detector: Peak a)Attenuation: Auto b)Span Frequency: > 6dB Bandwidth f)Trace: Max Hold c)RBW: 100kHz g)Sweep Time: Auto d)VBW: ≥ 3 x RBW **Maximum Conducted Output Power Measurement:** ∑5.15~5.25 GHz Limit of Indoor access point: Limit of Outdoor access point: The maximum conducted output power over the The maximum conducted output power over the frequency band of operation shall not exceed 1 W frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not (30dBm) provided the maximum antenna gain does exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum exceed 6 dBi. If transmitting antennas of directional conducted output power and the maximum power gain greater than 6 dBi are used, both the maximum spectral density shall be reduced by the amount in dB conducted output power and the maximum power that the directional gain of the antenna exceeds 6 dBi. spectral density shall be reduced by the amount in The maximum e.i.r.p. at any elevation angle above 30 dB degrees as measured from the horizon must not exceed that the directional gain of the antenna exceeds 6 125 mW (21 dBm). dBi. Limit of Fixed point-to-point access points: ∐Limit of Mobile and portable client devices: The maximum conducted output power over the The maximum conducted output power over the frequency band of operation shall not exceed 1 W frequency band of operation shall not exceed 250 (30dBm). Fixed point-to-point U-NII devices may employ mW antennas with directional gain up to 23 dBi without any (24dBm) provided the maximum antenna gain does corresponding reduction in the maximum conducted not output power or maximum power spectral density. For exceed 6 dBi. If transmitting antennas of directional fixed point-to-point transmitters that employ a directional gain greater than 6 dBi are used, both the maximum antenna gain greater than 23 dBi, a 1 dB reduction in conducted output power and the maximum power maximum conducted output power and maximum spectral density shall be reduced by the amount in power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. that the directional gain of the antenna exceeds 6 dBi. □5.25-5.35 GHz &□5.470-5.725 GHz The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. □5.725~5.85 GHz The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. **Power Spectral Density** ∑5.15~5.25 GHz Limit of Outdoor access point:17 dBm/MHz Limit of Indoor access point:17 dBm/MHz Limit of Fixed point-to-point access points: 17 Limit of Mobile and portable client devices: 11 dBm/MHz dBm/MHz □5.25-5.35 GHz 11 dBm/MHz □5.470-5.725 GHz 11 dBm/MHz □5.725~5.85 GHz 30 dBm/500kHz **Frequency Stability Measurement:** Limit: In-band emission is maintained within the band of operation under all conditions of normal operation asspecified in the user's manual. The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE

802.11n specification).

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8. 4 TEST RESULT

26dB Bandwidth& 99% Occupied Bandwidth

	Zoub Bandwidth	& 33 /6 Occupied Dandwidth		
	Product	: Mobile phone	Test Mode	: See section 2.2
	Test Item	: 26dB Bandwidth and 99% Occupied Bandwidth	Temperature	: 25℃ W5 €7°
/	Test Voltage	: DC 3.7V	Humidity	: 56%RH
	Test Result	: PASS		X

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W5/T

26dB Bandwidth

IEEE 802.11n 5G 40MHz

ILLE 002.1111 30 4	FOIVII IZ				
Channel	Frequency (MHz)	26dBBandwidth (MHz)	Result		ANT
38	5190	70.128		PASS	1
38	5190	70.256	4W5L/	PASS	2

WSET

99% Occupied IEEE 802.11n 5G 40MHz

TEEE COLITIII CO T	O ISTITLE				
Channel	Frequency (MHz)	99% Occupied FCC Limit Bandwidth (MHz) (kHz)		Result	ANT
38	5190	37.179	/	PASS	1 /
38	5190	38.333	\/	PASS	2

WSCT WSCT WSCT WSCT

WSET WSET WSET WSET WSET

VELT WELT WELT WELT

WSET WSET WSET WSET

WSET WSET WSET WSET

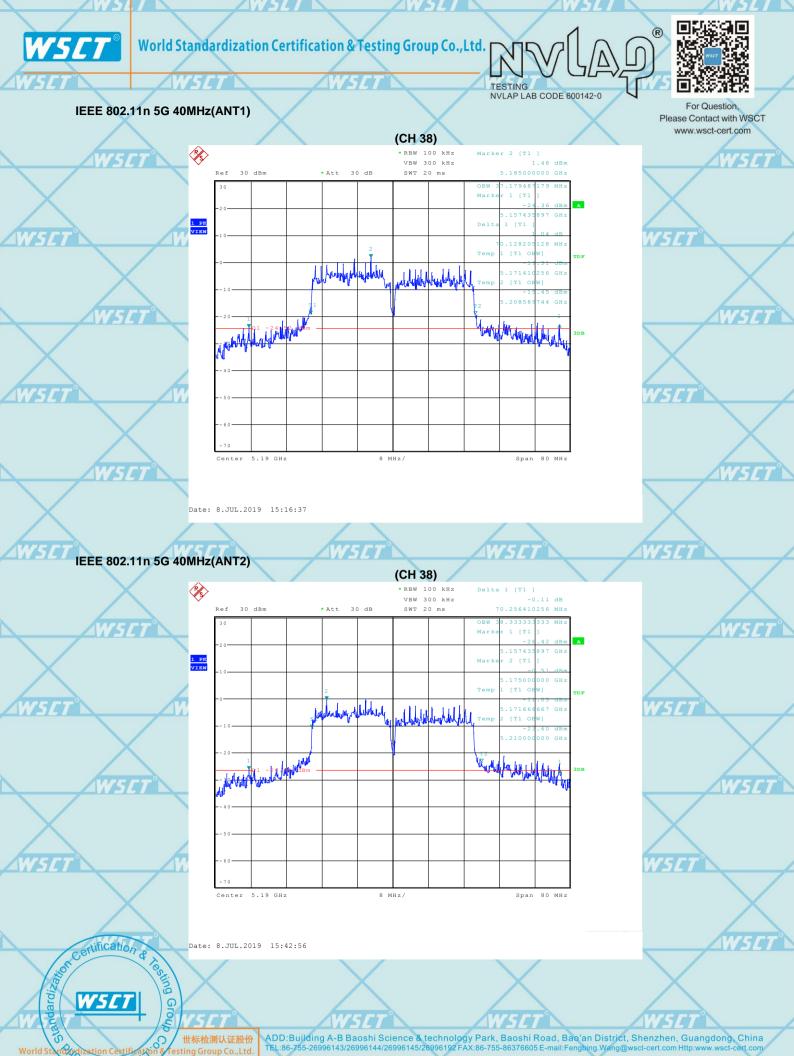
WSET WSET WSET

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9. MAXIMUM CONDUCTED OUTPUT POWER

The test method

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)

Test Method: KDB 789033 D02 v01r04 Section E.3.a(Method PM)

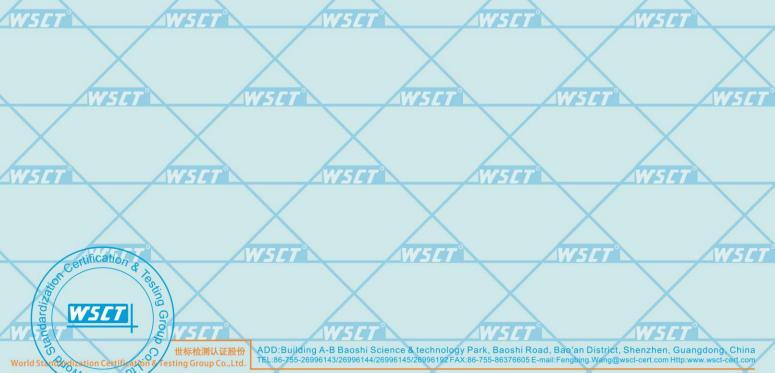
Limits:

- (1) For the band 5.15-5.25 GHz.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over thefrequency band of operation shall not exceed 250 mW provided the maximum antenna gain does notexceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both themaximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure:

- 1. Connected the EUT's antenna port to measure device by 10dB attenuator.
- 2. Method PM is used to perform output power measurement, trigger and gating function of wide band powermeter is enabled to measure max output power of Tx on burst.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.









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For Conducted RF test setup

Power meter Attenuator EUT

(EUT: Remote Control)

W5ET

Test Data:

Band 1: 5150 MHz ~ 5250 MHz

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm) Meas Power	Limit(dBm)	Pass / Fail	ANT
802.11n(HT40)	38 (5190)	19.97	24	Pass	1
802.11n(HT40)	38 (5190)	19.59	24	Pass	2

Power and value:

-			Maximum conducted		
1	Mode	Channel/ Frequency	output	Limit(dBm)	Pass / Fail
Wode			power (dBm)	Lillia	l ass/l all
		(MHz)	Meas Power		
	802.11n(HT40)	38 (5190)	22.79	24	Pass

Note: Power and value are the values of ANT 1 + ANT 2

WSET WSET WSET WSET

WSET WSET WSET WSET

WSET WSET WSET

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10. PEAK POWER SPECTRAL DENSITY

	Humidity	: 56%RH		Test Mode	: See Section 2.2	
7	Test Item	: Peak Power Spectr	ral Density	Temperature	: 25℃	
	Test Voltage	: DC 3.7V		Test Result	: PASS	

IEEE 802.11n 5G 40MHz

Channel Frequency (MHz)		PPSD (dBm/MHz)	FCC Limit (kHz)	Result	ANT
38 5190 4.33		11dBm/MHz	PASS	1/	
38	5190	3.68	11dBm/MHz	PASS	2
The sum of the two antennas					
38	5190	7.03	11dBm/MHz	PASS /	

PSD(dBm/MHz)=P(dBm)-10*log(RBW)

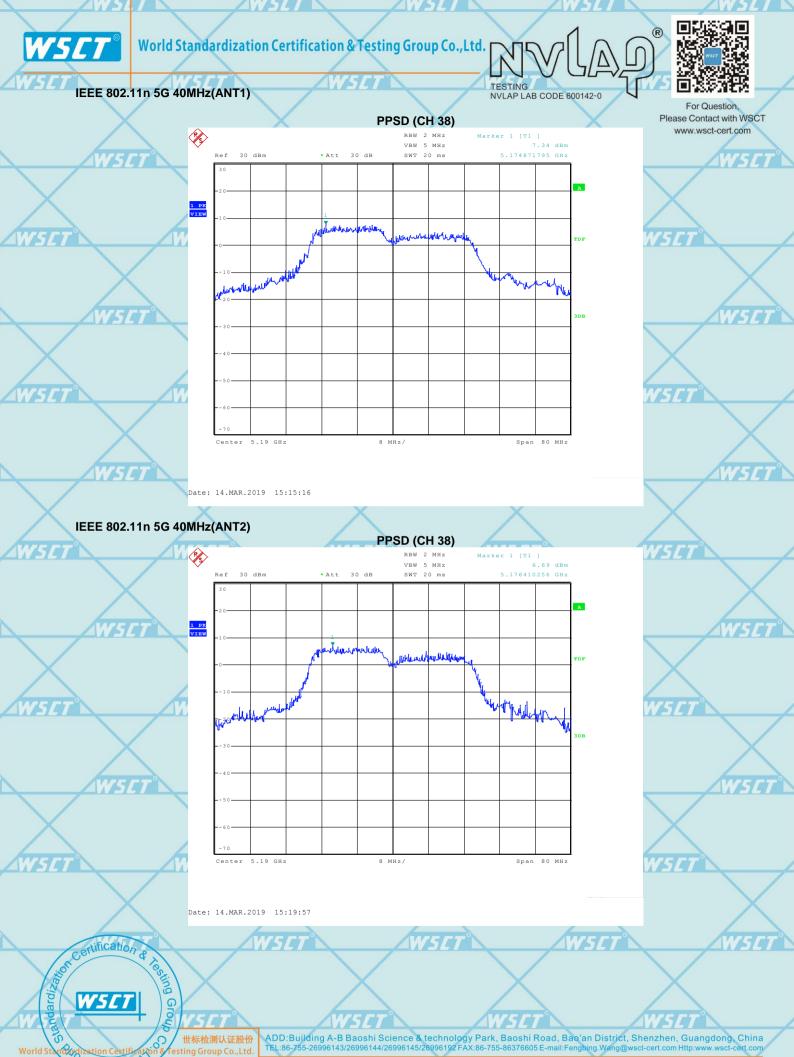
Remark: And the value is the value of ANT 1 + ANT 2

WSET	WSET	WSET	WSET	WSET	
		WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	
WSET	WSLT	WSET	WSET	WSET	
		WS		UT WSL	
WSET	WSET	WSET	W5ET	WSET	
	$\langle \hspace{0.1cm} \rangle$	W5	ET W5	ET W5L	
WSET	WSET	WSET	W5ET°	WSET	
	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	ET WS	$\langle \hspace{0.2cm} \rangle$	-
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11.BAND EDGE EMISSIONS

11. 1 TEST EQUIPMENT

Please refer to Section 5 this report.

	Please relei to Sec	ction 5 this report.	47°	W5ET	W5ET [®]	WSET
\ /	11. 2 TEST PR	OCEDURE				
X		X	X			X
	Band Edge Emis	ssions Measuremen	t:			
	Test Method:		ested according to A	NSI C63.10.		777
VSLI					size is 1m x 1.5 m, table hi	gh 4
			is according to ANS			
	X				ted. All readings from <u>9</u> kHz	
					of 200 Hz. All readings from	1 /\
				lues with a resolution b		
	WSET				a resolution bandwidth of 1	
\ /			were made at 3 meters		olution bandwidth of <u>1</u> MHz	
					every azimuth by rotating	the
					4 m high to find the maxim	
				ons below 30MHz were		
V5ET				Iz were measured using		517
		antenna.				
					emissions to ensure EUT	
				nbinations. All data was		
					hen an emission was found	
	WSET	data table.	nin -4 db of specifica	ation limit), and aredistir	nguished with a "QP" in the	WSET
			as to be maximized	by changing the polariza	ation of receiving antenna	
		both		ay onanging the polaria	and the second s	
\wedge		horizontal and ve	rtical. In order to find	dout the max. emission,	the relative positions of th	is
			was rotated through	three orthogonal axes	s according to the	
VSET		requirements in	WSET	W5	CT° W	5/17°
	David Edu / Enric	Section 8 and 13				
		ssions Measuremen	t:/	$\overline{}$	$\overline{}$	
	Test Equipment Set a)Attenuation: Au		\	d\DD\\\\\\D\\\\Emiccid	on in non-restricted band)	
	b)Span Frequenc			1MHz / 3MHz for pea		
		ission in restricted ba	and):	TWI 12 / SIVIL 12 TOT ped	" WSET	WSET
	1MHz / 3MHz for					
	1MHz / 1/T for Av					
				/		
	11.2. 1 Test Se					
NSET	Same as section 3	.2of this report	W5ET	W5	<i>[7</i> W	15 ET
			_/			
		ration of the EU	J <i>Y</i>			
	Same as section 3	.2of this report				
	44 22 FUT On	anatina Canaliti				
		erating Condition	JII.	WSET	WSET	WSET
	Same as section 3	.201 this report.				
						\vee
				/		\wedge
NSET		WSET"	WSET W	W5	CT W	15CT
	diffication	W5	[7]	WSCT	W5CT°	WSCT

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	11. 3 LIMIT				INVERT EAD CODE 000142 0		For Question,
	X	X		X	X		se Contact with WSCT
	Spurious Radiate	ed Emission & Band I	Edge Emissions N	Measurement:		, v	www.wsct-cert.com
	Limit:	Part 15.407(b)	0	TARRES .	NAME OF		VALUE OF THE STATE
_	ZW3L/	(1) For transmitters	operating in the 5.	15-5.25 GHz band	d: All emissions outsid	de of the	AWSLI
		5.15-5.35 GHz band					
		(4) For transmitters of	perating in the 5.7	25-5.85 GHz band	d: 🖊		
					Iz at 75 MHz or more		
r T'					at 25 MHz above or be		7
					creasing linearly to a		
					rom 5 MHz above or	below the	
	X	band edge increasing	g linearly to a level	of 27 dBm/MHz a	t the band edge.		X
	A CONTRACTOR OF THE CONTRACTOR				ain greater than 10 d		Average
	ZW3L/				47(d), but manufactur		WSLI
					ernative must cease		
					a gain of 10 dBi or les		
					47(d), but manufactur		
		marketing and import	ting of devices cert	tified under this alt	ernative must cease	before March	
rr'		2, 2020.	WSCT		MEET	WE	7
	Note:		(h 4 f = 11 in the a name	uist at house of the co	dia acation 45 005. T		
		nics/spurious emissions		tricted bands listed	d in section 15.205. I	ne maximum	
		e field strength is listed		o are boood on me	and the second of the second	at amplaying	X
		c): The emission limits tor. The provisions in se				it employing	
	an average detect	tor. The provisions in s	ection 15.55 for iiii	nung peak emissic	лів арріу.	-	Marie
	ANDLI	4736					AWSLI
		\ /			\ /		
[T		WSET"	W5CT°		W5[T°	W5	
	X	X		X	X		X
	AUG CONTRACTOR OF THE PARTY OF	AUGE		August	Augel		MARKET
	ZW35			ZW3L			AW5LI
					\ /		
CT		WSET N	W5ET		WSET"	W5	CT [°]
	X	X		X	X		X
		/ \					
	WSET	W5E		ALL CONTRACTOR OF THE PARTY OF	ATTE		Meder
	ZW3L/	AWSL		WSCT	W51		WSET
		V					
1							
CT		W5ET"	W5ET [®]		WSET"	W5	47°
	X	X		X	X		X
	AUD TO	Aure		A	Array (4







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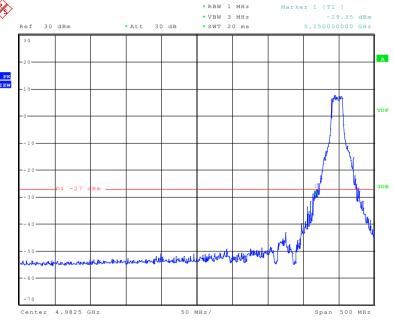
11. 4 TEST RESULT

		Band Edge and Fundamental Emissions		ai Eillissiolis		
	Humidity:	56%RH 4/5/7°	Test Mode:	IEEE 802.11n 5G	NSIT	
/	Test Item:	Band Edge and Fundamental Emissions	Temperatur e:	25℃		
	Test Voltage:	3.7V	Test Result:	PASS	X	-

IEEE 802.11n 40MHz(ANT1)

Channel 38 (5190MHz)





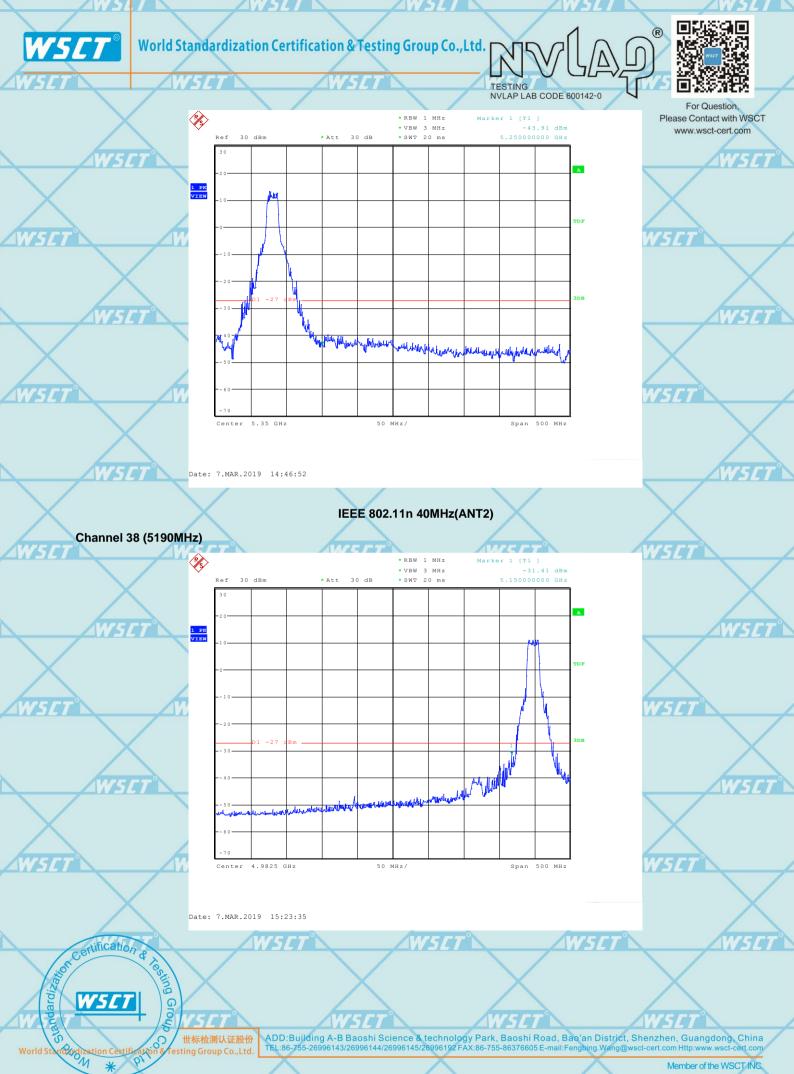


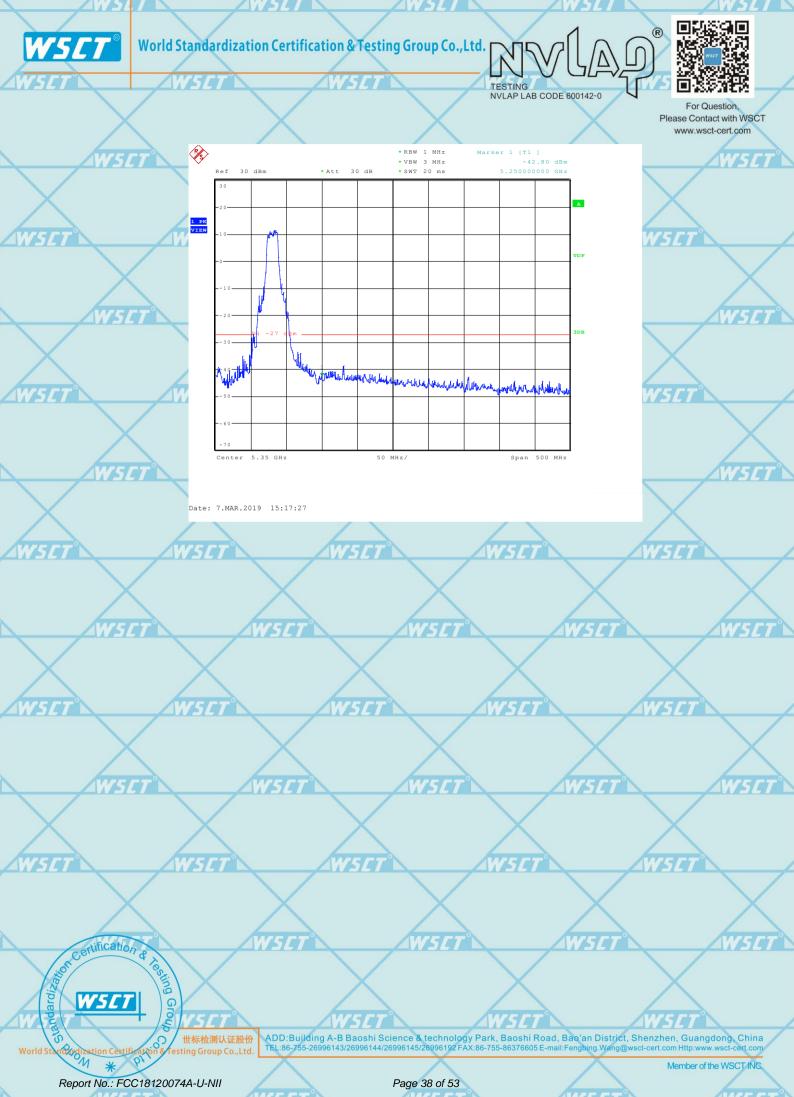
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12. IN RESTRICTED BAND

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6) FCC 47 CFR Part 15 Subpart C Section 15.209/205

Test Method: KDB 789033 D02 v01r04 Section G.2

- a) For all measurements, follow the requirements in II.G.3. "General Requirements for Unwanted **Emissions Measurements.**'
- b) At frequencies below 1000 MHz, use the procedure described in II.G.4. "Procedure for Unwanted Emissions Measurements Below 1000 MHz."
- c) At frequencies above 1000 MHz, use the procedure for maximum emissions described in II.G.5., "Procedure for Unwanted Emissions Measurements Above 1000 MHz."
- (i) Sections 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of 27 dBm/MHz.3
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.4
- d) If radiated measurements are performed, field strength is then converted to EIRP as follows:
- (i) EIRP = $((E \times d)^2) / 30$ where: E is the field strength in V/m; d is the measurement distance in meters; EIRP is the equivalent isotropically radiated power in watts.
- (ii) Working in dB units, the above equation is equivalent to: $EIRP[dBm] = E[dB\mu V/m] + 20 log (d[meters]) - 104.77$
- (iii) Or, if d is 3 meters: $EIRP[dBm] = E[dB\mu V/m] - 95.2$

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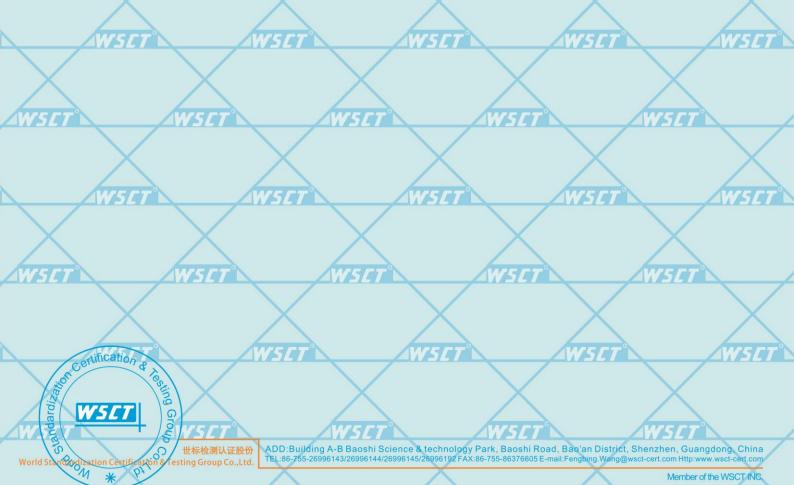
§15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			, ,

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

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²Above 38.6







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Test result

802.11n/H40 Band1:5190MHz

	Daria 1.0 100	W11 12	VAC	EFT		MAPP PT		VAPE F			40
Indicated			. Antenna		Correction Factor						
	Frequency (MHz)	Receiver Reading (dB _µ V/m)	result (PK/AV)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB _µ V/m)	Limit (dBµV/m)	Margin (dB)	
								7			
	5150	32.64	AV	V	30.3	4.1	33.1	33.94	54	20.06	
	5150	34.42	AV	Н	30.3	4.1	33.1	33.12	54	18.28	7
	5150	45.36	PK	V	30.3	4.1	33.1	46.66	74	27.34	1
	5150	43.63	PK	Н	30.3	4.1	33.1	44.93	74	29.07	
						1					
7	5050	30.29	AV	V	1/531	4.4	32.7	32.99	74//5	41.01	
	5050	31.56	AV	H	31	4.4	32.7	34.26	74	39.74	
	5050	40.17	PK	V	31	4.4	32.7	44.24	74	29.76	
	5050	40.55	PK	5CH.	31	4.4	32.7	43.42	74	30.58	7

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

And only worst case is presented in this report.

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13. FREQUENCY STABILITY

				Please Contact with WSCT
	Humidity:	56%RH	Test Mode:	Mode: IEEE 802.11n 40MHz www.wsct-cert.com
	Test Item:	Frequency Stability	Temperature:	25 °C W5ET W5ET
/	Test Voltage:	DC 3.7V	Test Result:	PASS

Voltage vs. Frequency Stability

	Tollago Tol I Toquolloy	Justing					
	Voltage	1	Measurement F	requency (MH	z)		
3	(V)	5190 MHz	August		AVIE		7
	126.50	5189.939				W	È
	110.00	5189.939					
	93.50	5189.939		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		\sim	
	Max. Deviation (MHz)	-0.061					
	Max. Deviation (ppm)	-11.75					

Temperature vs. Frequency Stability

/	Temperature	N	Measurement F	requency (MH	z)	
	(℃)	5190 MHz				
	0	5189.952				
\	10	5189.952				
	20 14/5	5189.952	WS	-7°	W51	7
	30	5189.952				
	40	5189.952				
	Max. Deviation (MHz)	-0.048		X		X
	Max. Deviation (ppm)	-9.25				

WSET WSET WSET WSET

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<mark>世标检测认证股份</mark> ADD:Building A-B Baoshi Science & tee

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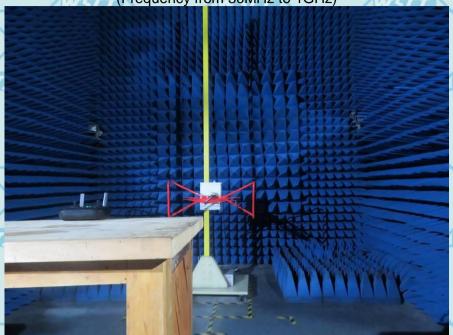




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14 EUT TEST PHOTO

RADIATED EMISSION TEST (Frequency from 30MHz to 1GHz)



RADIATED EMISSION TEST (Frequency above 1GHz)



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15. PHOTOGRAPHS OF EUT

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Appearance photograph of EUT

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

Appearance photograph of EUT

Certification

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26









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/5/17 Appearance photograph of EUT

3

Appearance photograph of EUT

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Internal photograph of EUT

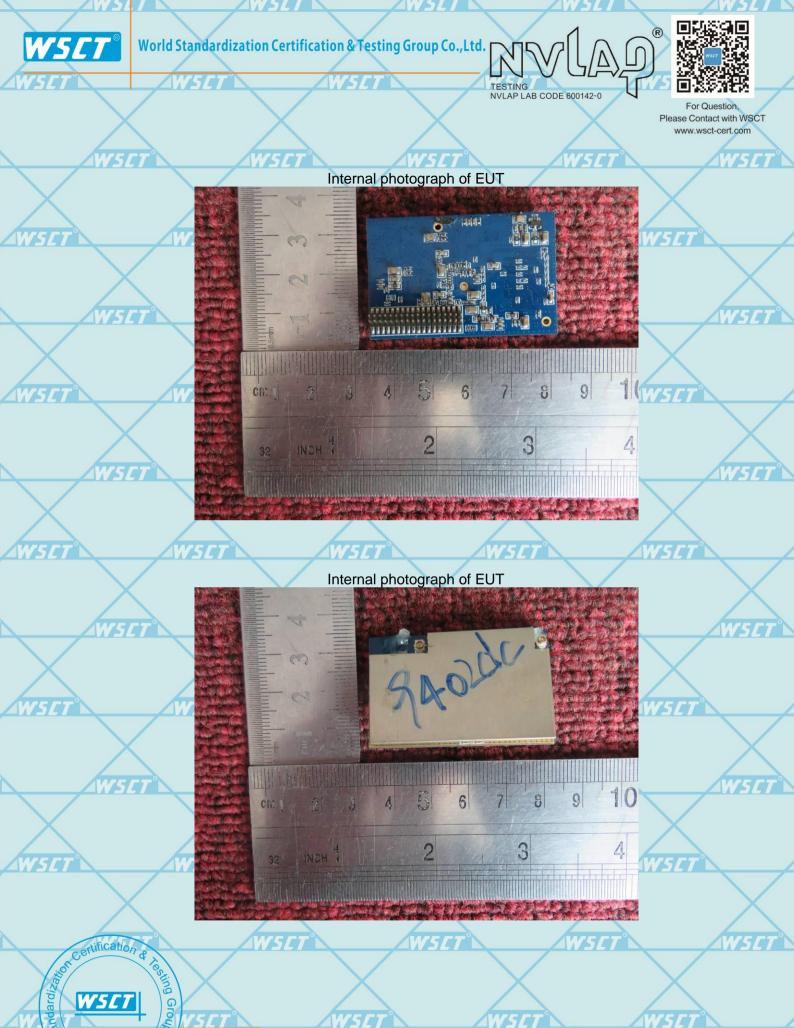
Internal photograph of EUT

6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28



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Internal photograph of EUT

10 11 12

Internal photograph of EUT

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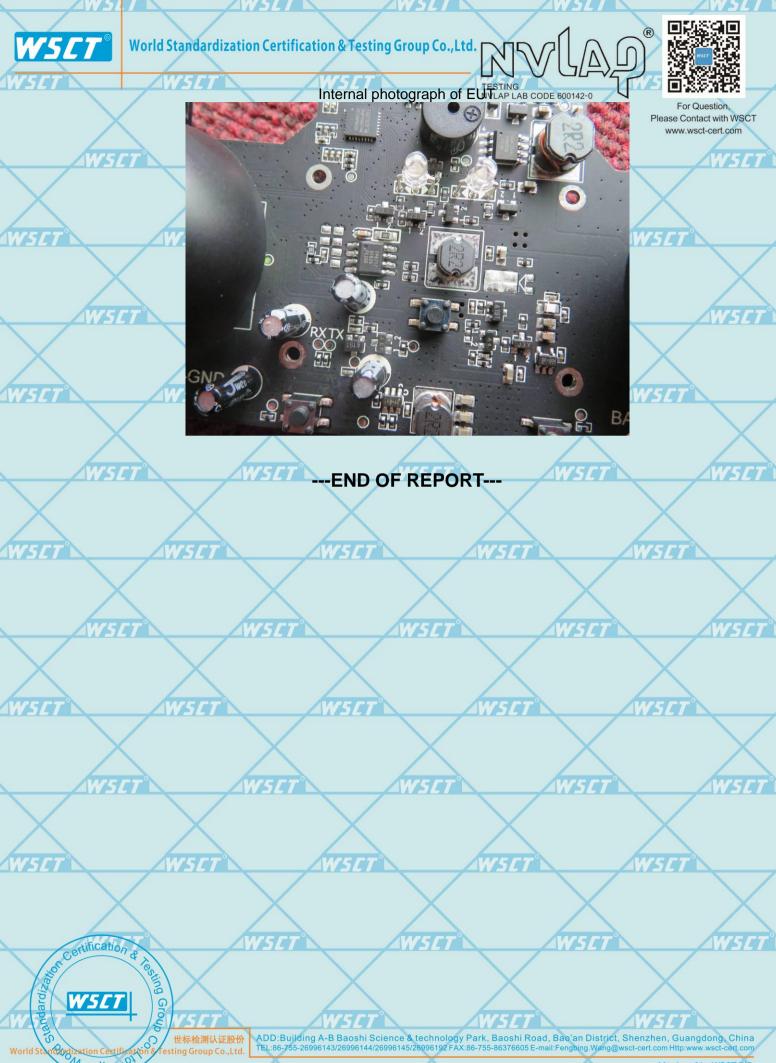
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Internal photograph of EUT

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