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TEST REPORT

FCC ID: 2ADYY-K16SDA Product: Laptop Computer Model No.: K16SDA Trade Mark: TECNO Report No.: WSCT-A2LA-R&E240300014A-Wi-Fi2 Issued Date: 06 June 2024

Issued for:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) 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

Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification, approval, or any agency of the U.S. Government.

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	lest Certifi	cation
	Product:	Laptop Computer
	Model No.:	K16SDA
	Trade Mark:	TECNO
	Applicant:	TECNO MOBILE LIMITED
	Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
	Manufacturer:	TECNO MOBILE LIMITED
	Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
	Date of Test:	09 April 2024 to 05 June 2024
1	Applicable Standards:	FCC CFR Title 47 FCC Part 15 Subpart E

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)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:	Warg Xiarg (Wang Xiang)	Checked By:	Mo Peiz (Mo Peiyun)	WSET
Approved By:	Linfuen (Liu Fuxin)	Date: 06	June 2014	WSET STATES
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2 EUT Description

2			7 47 41					
	Product:	Laptop Computer						
2	Model No.:	K16SDA						
	Trade Mark:	TECNO	/					
	\times \times	Band 1: 5180-5240 MHz	K					
2	Operation Frequency:	Band 2: 5260-5320 MHz Band 3: 5500-5700 MHz	m					
7		Band 4: 5745-5825 MHz						
	Modulation type:	IEEE 802.11a/n/ac/ax: OFDM/OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)						
	Antenna Type:	FPC Antenna	/					
	Antenna Gain	MAIN ANT: 4.39dBi	Κ					
2	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	AUX ANT: 2.66 dBi	7.0					
6		Nominal Voltage: 11.55V						
	Rechargeable	Rated Capacity: 6060mAh						
	Err orymer Battery.	Rated nergy: 70.00Wh Limited Charge Voltage: 13.2V						
		Adapter: E065-1R200325VU	/					
	Adapter:	Input: 100-240V~,50/60Hz,1.5A	X					
	king king	Output: 20.0V3.25A	7.0					
-	Remark:	N/A.						





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3 TEST DESCRIPTION

3.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U \cdot$ 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** % °

~		× ×	
0	No.	Item	Uncertainty
1	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
	4 17	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
×	6	Temperature	±0.5°C
7	7	Humidity	±2%



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3.2 TEST ENVIRONMENT AND MODE

Operating Environment:				5/
Temperature:	$^{\prime}$	25.0 °C	\sim	
Humidity:	$ \land$	56 % RH	\bigtriangleup	
Atmospheric Pressure:	WALL D	1010 mbar		

Test Mode:

Engineering mode:

Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)

The sample was placed (0.8m below 1GHz, 1.5m 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 are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

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.

Test Mode		Description	
Mode 1	\bigvee	802.11a	\sim
Mode 2	\wedge	802.11n20	\wedge
Mode 3	AVERA	802.11n40	WATER
Mode 4	/	802.11ac20	
Mode 5	/	802.11ac40	\times
Mode 6	AVIS 1	802.11ac80	डाबर 🗸
Mode 7		802.11ax20	
Mode 8	X	802.11ax40	X
Mode 9	(TITE)	802.11ax80	(TERES
	Test ModeMode 1Mode 2Mode 3Mode 4Mode 5Mode 6Mode 7Mode 8Mode 9	Test ModeMode 1Mode 2Mode 2Mode 3Mode 4Mode 5Mode 6Mode 7Mode 8Mode 9	Test Mode Description Mode 1 802.11a Mode 2 802.11n20 Mode 3 802.11n40 Mode 4 802.11ac20 Mode 5 802.11ac20 Mode 6 802.11ac40 Mode 7 802.11ac80 Mode 8 802.11ax40 Mode 9 802.11ax80

Note:

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(1) The measurements are performed at the highest, lowest available channels.

(2) The EUT use new battery.

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⁸ (3) Record the worst case of each test item in this report.

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3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

_					- fill	ATAINS		17-1410	1	ZIPIAN	
/	Test					DRTU					
	program										
1		AVIS	(TT)	12	Test	Frequency	(MHz)		AUST		.)
	Mode	/	/	/	NCB: 20	MHz					1
	802.11a	5180	5240	5260	5320	5500	5700	5745	5825	X	
		MHZ	MHZ	MHZ	MHz	MHZ	MHZ	MHZ	MHz		
	802 11n	5180	5240	5260	5320	5500	5700	5745	5825	AWIST	
	002.1111	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	2318-1-14	Cheve a
2	802 1100	5180	5240	5260	5320	5500	5700	5745	5825		
5	002.1140	MHz 🌖	🔇 MHz	MHz	MHz	MHz	MHz	MHz	MHz		
	902 11 ov	5180	5240	5260 🦯	5320	5500	5700	5745	5825	2	
1	002.11ax	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz)
		/	/	/	NCB: 4	OMHz					7
	X	5190	5230	5270	5310	5510	5670	5755	5795	X	
	802.11n	MHz	MHz 🖊	MHz	MHz	MHz	MHz	MHz	MHz		
	ATTA	5190	5230	5270	5310	5510	5670	5755	5795	ATTAT	2
	802.11ac	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	ZIFI41	
		5190	5230	5270	5310	5510	5670	5755	5795		
K	802.11ax	MHz 🌖	MHz	MHz	MHz	MHz	MHz	MHz	MHz		
		-	1	1	NCB:	80MHz					
1		5210	5290	5530	5610	5775	NAT AN	()	AL ATAK		1
	802.11ac	MHz	MHz	MHz	MHz	MHz		1/		1/	
	000 44	5210	5290	5530	5610	5775		X		X	
	802.11ax	MHz	MHz	MHz	MHz	MHz		1			

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.





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.

1	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	Adapter	1		ADAPTER
	Router	Archer AX6000		TE7AX6000	

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







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4 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 Subpart C&E

Standard Section		Test Item	Judgment	Remark
	2.1049 15.403(i)	26dB & 99% Bandwidth	PASS	Complies
1	15.407(e)	6dB Spectrum Bandwidth	PASS	Complies
5	15.407(a)	Maximum Conducted Output Power	PASS	Complies
<u>c</u> 1	15.407(a)	Power Spectral Density	PASS	Complies
	15.407(b)	Unwanted Emissions	PASS	Complies
_	15.207	AC Conducted Emission	PASS 175	Complies
<	15.407(g)	Frequency Stability	PASS	Complies
	15.407(c)	Automatically Discontinue Transmission	PASS	Complies
	15.203 & 15.407(a)	Antenna Requirement	PASS	Complies
	15.407(h)	Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)	PASS	Complies

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

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5 MEASUREMENT INSTRUMENTS

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ZIAPI4 AN				A14 M	- IPI	16
NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
Test software	A AWA	EZ-EMC	CON-03A	-////		
Test software	\sim	MTS8310	- 2	$\overline{}$	- /	1
EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	1
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	1
GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	2
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2023	11/04/2024	ŀ
9*6*6 Anechoic	X	- X		11/05/2023	11/04/2024	K
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	- /	11/05/2023	11/04/2024	1
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R	
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R	5
RF cable	Murata	MXHQ87WA300 0	- /	11/05/2023	11/04/2024	0
Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
Power sensor	Anritsu	MX248XD		11/05/2023	11/04/2024	K
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	I
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6 Facilities and Accreditations

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group(Shenzhen) CO., LTD

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2 ACCREDITATIONS CNAS - Registration Number: L3732

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

A2LA - Certificate Number: 5768.01

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The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA).Certification Number: 5768.01









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7 Test Results and Measurement Data

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

	Class A (dBuV)		Class B	Standard		
	Quasi-peak	Average	Quasi-peak	Average	Standard	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC	
0.50 -5.0	73.00	60.00	56.00	46.00	FCC	
5.0 -30.0	73.00	60.00	60.00	50.00	FCC	

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- (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	4
1	Attenuation	10 dB	4.4
\sim	Start Frequency	0.15 MHz	
\wedge	Stop Frequency	30 MHz	
WIST	IF Bandwidth	WGC 9 kHz	









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7.1.1 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.

7.1.2 DEVIATION FROM TEST STANDARD

No deviation





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Freq. = Emission frequency in MHz

Reading level $(dB\mu V) = Receiver reading$

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin $(dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

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.

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50.00 -24.95

60.00 -25.29

-30.51

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7.2 RADIATED EMISSION MEASUREMENT Radiated 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.

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		
30~88	100	3		
88~216	150	3		
216~960	200	VISET 3 AVIS		
Above 960	500	3		

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Limit (dBuV/m) (at 3M)				
FREQUENCT (MINZ)	PEAK	AVERAGE			
Above 1000	WSC 74	WSCT 54 WSL			

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- (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	1000 MHz	
Stop Frequency	10th carrier harmonic	X
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average	7

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

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7.2.1 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. 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

7.2.2 DEVIATION FROM TEST STANDARD

No deviation

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7.2.4 EUT OPERATING CONDITIONS

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. **7.2.5** RESULTS (BELOW 30 MHZ)

۲.:	RESULIS (DELUW				
	Freq.	Reading	Limit	Margin	State
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
		-	-		Р
	X	X	X	X	Р

Note:

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No result in this part for margin above 20dB.

Distance extrapolation factor =20 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.



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

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Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. 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 $(dB\mu V)$

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7.2.7 TEST RESULTS (ABOVE 1GHZ)

Note: All the mode have been tested, and only the worst case mode are in the report 802.11n20(the wost case)

			ADOVE IC						
Frag	Low channel: 5180MHz								
	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	Limit 3m(dBuV/m)		Over(dB)		
(IVIHZ)	H/V	PK	AV	PK	AV	PK	AV		
10360	V	60.68	41.56	74	54	-13.32	-12.44		
15540	V	59.08	39.68	74	54 🧼	-14.92	-14.32		
10360	H	58.92	39.18	74	54	-15.08	-14.82		
15540	H	58.34	39.34	- 74	54	-15.66	-14.66		
AT A THE REAL OF	Contract of the second s				() / / / / ····	A CONTRACTOR OF A CONTRACTOR OFTA A			

From	Low channel: 5260MHz								
	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
(IVIHZ)	H/V	PK	AV	PK	AV	PK	AV		
10520	V	60.53	40.45	74	54	-13.47	-13.55		
15780	V	59.32	39.09 🔪	74	54 🔪	-14.68	-14.91		
10520	Н	59.30	39.17	74	54	-14.70	-14.83		
15780	Н	59.03	40.03	74	54	-14.97	-13.97		
		A ST BU AN	AU						

Гтол	Low channel: 5500MHz								
	Ant.Pol	Emission Level(dBuV) Limit			(dBuV/m)	Over(dB)			
(IVI⊟Z)	H/V	PK	AV	PK	AV	PK	AV		
11000	S / V	59.42	40.16	74	54	-14.58	-13.84		
16500	V	59.48	39.45	74	54	-14.52	-14.55		
11000	Н	58.59	39.27 🔪	74	54	-15.41	-14.73		
16500	H 🍃	58.07	39.07	74	54	-15.93	-14.93		

F ue e	Low channel: 5745MHz								
Freq.	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Over(dB)			
(IVIHZ)	H/V	PK	AV	PK	AV	PK	AV		
11490	V	60.48	39.39	74	54	-13.52	-14.61		
17235		59.53	39.85	74	54	-14.47	-14.15		
11490	Η	59.44	40.24	74	54	-14.56	-13.76		
17235	Н	58.23	39.23	74	54	-15.77	-14.77		

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

2. Emission Level= Reading Level+ Probe Factor +Cable Loss.

3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.







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7.3 ANTENNA REQUIREMENT

Standard 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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7.4 EMISSION BANDWIDTH

7.4.1 TEST EQUIPMENT Please refer to Section 5 this report.

7.4.2 TEST PROCEDURE

1						
11-1	-26dB Bandwidth	and 99% Occu	pied Bandwidth:	Anna -	hours	A.
19	Test Method:	a)The transmit	ter was radiated to the	spectrum analyzer in peak hol	d mode.	
		b)Measure the	maximum width of the	emission that is 26 dB down	from the peak of the	
	X	emission Com	pare this with the RBW	setting of the analyzer. Read	just RBW and repeat	X
		measurement a	s needed until the RBV	V/EBW ratio is approximately	1%	
	Test Equipment Set	ting – 26dB Bandy	width:	Test Equipment Setting – 99%	% Bandwidth:	-
	a)Attenuation: Auto	ing zoub build	A74	a)Span: 1.5 times to 5.0 time	es the OBW	ATATA
	b)Span Frequency:	> 26dB Bandwidth		b)RBW: 1 % to 5 % of the O	BW	/
1	c)RBW: Approxima	tely 1% of the em	ission bandwidth	c)VBW: ≥ 3 x RBW	\sim	
~	d)VBW: VBW > RI	BW	\wedge	d)Detector: Peak	\wedge	
	e)Detector: Peak			e)Trace: Max Hold		
14	f)Trace: Max Hold	WSET	AVIST	17694	AWED	
	g)Sweep Time: Auto	0				
	6 dB Bandwidth:					
	Test Method:	a)The transmitt	ter was radiated to the	spectrum analyzer in peak hol	d mode.	X
		b) lest was per	formed in accordance v	with KDB789033 D02 v01 for (Compliance Testing of	
	AUZTER	Unificensed Na	tional information infras	structure (U-NII) Devices - sec	tion (C) Emission	AVISION
-	- CIFICE	c)Multiple anter	nna system was perfor	med in accordance with KDB6	62011 D01 v02r01	1 CHIEF ST
/	8	Emissions			02011 001 00210	
X		Testing of Tran	smitters with Multiple C	Outputs in the Same Band.	X	
		d)Measured the	e spectrum width with p	ower higher than 6dB below o	carrier.	
1	Test Equipment Set	ting:	Autoria	ATTIGE 2	AUG	
19	a)Attenuation: Auto	IL PIAN	pir 191	e)Detector: Peak	Cure 15	
	b)Span Frequency: 2	> 6dB Bandwidth		f)Trace: Max Hold		$\langle \rangle$
	c)RBW: 100kHz		X	g)Sweep Time: Auto	X	X
	d)VBW: $\geq 3 \times RB$	W				
	Maximum Condu	cted Output Po	wer Measurement:	ATTIST	AUTOR	ATT THE
-	Test Method:	a)The transmitt	ter output (antenna por	t) was connected to the power	meter.	/ IFINI
1		b)Test was per	formed in accordance v	with KDB789033 D02 v01 for 0	Compliance Testing of	
X		Unlicensed Na	tional Information Infras	structure (U-NII) Devices - sec	tion (E) Maximum	
1	÷	conducted outp	out power =>3. Measure	ement using a Power Meter (P	PM) =>b) Method PM-G	
		(Measurement	using a gated RF avera	age power meter).	CC2011 D01 v02-01	- A
14			nna systems was peno	imed in accordance with KDB	002911 DUT VUZIUT	
		Testing of Tran	smitters with Multiple C	outputs in the Same Band		
	X	d)When measu	iring maximum conduct	ed output power with multiple	antenna systems, add	X
		every result of	the values by mathema	tic formula.		
	Test Equipment Set	ting: Detector - A	verage	horas	hora	-
_	Power Spectral D	Density:			ZWSEIN	111-141
2	Test Method:	a)The transmitt	ter output (antenna por	t) was connected RF switch to	the spectrum analyzer.	
X		b)Test was per	formed in accordance v	with KDB789033 D02 v01 for (Compliance Testing of	
~		Unlicensed Nat	tional Information Infras	structure (U-NII) Devices - sect	tion (F) Maximum Power	
		Spectral Densit	ly (PSD).	rmod in accordance KDR6620	11 D01 v02r01 in Band	1
14		Power	nna systems was peno	imed in accordance KDB6629		
		Spectral Densit	ty (PSD) Measurement	s (a) Measure and sum the sp	ectra across the	
		outputs.	(i OD) modouromoni			
	\wedge	d)When measu	iring first spectral bin of	output 1 is summed with that i	in the first spectral bin of	\sim
		output 2 and th	at from the first spectra	I bin of output 3 and so on up	to the Nth output to	
	sion & Tecu	obtain the value	e for any second	AVISTAT	AWSET	111514
1	incourse	the first frequer	ncy bin of the summed	spectrum. The summed spect	rum value for each of	/
18	010	the other				
8	10	trequency bins	is computed in the san	ne way.		
zat	WSLT	e)⊦or 5.725~5.	85 GHz, the measured	result of PSD level must add	10log(500kHz/RBW)	
P		USET	1912-1040	AULIA	10251	77
Du	he	THE REAL PROPERTY AND	ADD:Building A-B Baoshi So	tience & Technology Park, Baoshi Roa	d, Bao'an District, Shenzhen	Guangdonn, China
Starlin	Start Commonton (Dago	roup (Shenzhen) Co., Ltd.	TEL:86-755-26996192 26992	06 FAX 86-755-86376605 E-mail: Fen	gbing.Wang@wscl-cert.com Http	www.wsct-cort.com
)	MM * PT	and Soleson and Sole of the	Р	age 24 of 287	Men	nber of the WSCT INC.









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			X	X	X	Please Contact with WSCT
	7.4.3 LIWIII	and 00% Opp	unied Bandwidth			www.wsct-cert.com
	-2006 Balluwiuu	No restriction	limite	ATTINA	MITTANA	ATTACA
_	-6 dB Bandwidth	- No restriction	III1III.5.			/ UPIN
1	Limit:	For digital mo	dulation systems, the n	ninimum 6dB bandwidth shall be	at least 500 kHz.	
X	Test Equipment S	etting:				
1	a)Attenuation: Aut	to		e)Detector: Peak		
-11-14	b)Span Frequency	y: > 6dB Bandw	idth	f)Trace: Max Hold	Auger	
-14	c)RBW: 100kHz	TELET	- IIII	g)Sweep Time: Auto	CIT-13	
	d)VBW: ≥ 3 x RBV	N				
	Maximum Condu	icted Output Po	ower Measurement:		X	- X
			⊠5.15~5	.25 GHz		
		r access point:	ower over the	The maximum conducted out	II.	ATTACA
_	frequency band of	foneration shall	not exceed 1 W	frequency hand of operations	shall not exceed 1 W	
1	(30dBm) provided	the maximum a	antenna gain does not	(30dBm) provided the maxim	um antenna gain does	
X	exceed 6 dBi. If tra	ansmitting anter	nas of directional gain	not	uni antonna gan aobo	
	greater than 6 dBi	are used, both	the maximum	exceed 6 dBi. If transmitting a	antennas of directional	
	conducted output	power and the r	maximum power	gain greater than 6 dBi are us	sed, both the maximum	BA
14	spectral density sl	hall be reduced	by the amount in dB	conducted output power and	the maximum power	
	that the directiona	I gain of the ant	enna exceeds 6 dBi.	spectral density shall be redu	ced by the amount in	
	The maximum e.i.	r.p. at any eleva	ation angle above 30	aB that the dimensional main of the	ontonno aveca da O	X
	125 mW (21 dBm)	urea from the ho	onzon must not exceed	that the directional gain of the	e antenna exceeds 6	
	Limit of Fixed p). oint to point oc	poss points:	Millimit of Mobile and portabl	o client devices:	harrison
	The maximum cor	outed output r	ower over the	The maximum conducted out	put power over the	
	frequency band of	operation shall	not exceed 1 W	frequency band of operation s	shall not exceed 250	
$\mathbf{\nabla}$	(30dBm). Fixed po	pint-to-point U-N	III devices may employ	mW		
	antennas with dire	ectional gain up	to 23 dBi without any	(24dBm) provided the maxim	um antenna gain does	
_	corresponding rec	luction in the ma	aximum conducted	not		
5/02	output power or m	naximum power	spectral density. For	exceed 6 dBi. If transmitting a	antennas of directional	
	fixed point-to-poin	t transmitters th	at employ a directional	gain greater than 6 dBi are us	sed, both the maximum	
	antenna gain grea	ater than 23 dBi,	a 1 dB reduction in	conducted output power and	the maximum power	
	maximum conduc	red output powe	for each 1 dB of	de la consity shall be redu	ced by the amount in	
	antenna gain in ex	cess of 23 dBi	TION EACH T UB OF	that the directional gain of the	antenna exceeds 6	
	antonna gainin o	10000 01 20 dBl.		dBi.		ATATA
			5.25-5.35 GHz &	5.470-5.725 GHz		
\bigvee	The maximum cor	nducted output p	ower over the frequence	cy bands of operation shall not e	xceed the lesser of 250	
\land	mW (24dBm) or 1	1 dBm 10 log B	, where B is the 26 dB	emission bandwidth in megaher	tz. If transmitting	
_	antennas of direct	ional gain great	er than 6 dBi are used,	both the maximum conducted of	output power and the	
54	maximum power s	spectral density	shall be reduced by the	e amount in dB that the direction	al gain of the antenna	
	exceeds 6 dbl.		M5 725 4			
	The maximum cor	aducted output r	ower over the frequen	cy hand of operation shall not ex	ceed 1 W (30dBm) If	
	transmitting anten	nas of direction	al gain greater than 6 d	Bi are used, both the maximum	conducted output	\wedge
	power and the ma	ximum power s	pectral density shall be	reduced by the amount in dB that	at the directional gain of	
	the antenna excee	eds 6 dBi. Howe	ver, fixed point-to-poin	t U-NII devices operating in this	band may employ	A
	transmitting anten	nas with				
X	directional gain gr	eater than 6 dB	i without any correspon	iding reduction in transmitter con	nducted power.	
$ \land $	Power Spectral L	Density	\wedge	\wedge	\wedge	
	2		⊠5.15~5	.25 GHz	-	-
574	Limit of Outdoo	r access point:	17 dBm/MHz	Limit of Indoor access poin	it: 17 dBm/MHz	
	Limit of Fixed p	oint-to-point acc	cess points: 17	Limit of Mobile and portabl	e client devices: 11	
			X		X	
	□ 5.25-5.35 GHz	1-	\wedge		\wedge	
	□ 5.470-5.725 GF	72				
	Frequency Stabi	Lity Measureme	enf:			AVISION
1	Limit:	In-band emiss	ion is maintained within	n the band of operation under al	conditions of normal	
10	102	operation as s	specified in the user's n	nanual.		
1g		The transmitte	er center frequency tole	erance shall be ± 20 ppm maxim	um for the 5 GHz band	
Za	MALL S	(IEEE				
Pel		1 asal		A. 114190	17274	7
Pulo	3	世标检测认证股份	ADD:Building A-B Baoshi	Science & Technology Park, Baoshi Road	. Bao'an District, Shenzhen, G	Guangdong, China
Stanta	Porte Committee Barry	iroup (Shenzhen) Co., Ltd.	TEL:80/755-26996192 2699	2300 FAX:00-750-86376605 E-mail: Feng	loing.Wang@wscl-cert.com Http	www.wsci-cori.com
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802.11n specification).

7.4.6 TEST RESULT

-26dB Bandwidth and 99% Occupied Bandwidth

Product	: EUT-Sample	Test Mode	: See section 3.4	
Test Item	: -26dB Bandwidth/-6dB Bandwidth and 99% Occupied Bandwidth	Temperature	: 25 °C	1
Test Voltage	: DC 11.61V	Humidity	: 56%RH	
Test Result	: PASS	W5LT	AVISIOT \	1

-26dB Bandwidth

-ZOUD Dai	Iuwiuu				
X	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Verdict
WISTOT	а	5180	28.62	16.562	Pass
	а	5240	28.984	16.676	Pass
\sim	а	5260	28.209	16.540	Pass
\wedge	а	5320	29.668	16.792	Pass
harmon	a	5500	27.857	16.504	Pass
	а	5700	29.231	16.749	Pass
	n20	5180	28.162	17.708	Pass
X	n20	5240	29.663	17.750	Pass
	n20	5260	28.323	17.688	Pass
ANTIGAT A	n20	5320	29.958	17.887	Pass
INFIGUR	n20	5500	28.737	17.637	Pass
	n20	5700	29.596	17.732	Pass
X	n40	5190	58.782	36.255	Pass
	n40	5230	59.053	36.329	Pass
AVER	n40	5270	58.851	36.255	Pass
	n40	5310	59.476	36.350	Pass
\sim	n40	5510	59.638	36.203	Pass
	n40	5670	59.351	36.287	Pass
ATTACA	ac20	5180	29.353	17.750	Pass
awaran a	ac20	5240	29.336	17.773	Pass
	ac20	5260	29.339	17.680	Pass
X	ac20	5320	29.79	17.840	Pass
	ac20	5500	28.955	17.648	Pass
AVIST	ac20	5700 577	29.941	17.745	Pass
1	ac40	5190	58.513	36.265	Pass
	ac40	5230	56.426	36.206	Pass
\wedge	ac40	5270	55.432	36.186	Pass
And	ac40	5310	59.6	36.427	Pass
AVISTAN	ac40	5510	59.202	36.205	Pass
	ac40	5670	57.422	36.213	Pass
X	ac80	5210	118.321	75.040	Pass
	ac80	5290	118.554	75.126	Pass
A REAL	ac80	5530	118.361	75.099	Pass
Allcallon a rest	ac80	5610	105.656	74.787	Pass
0	ax20	5180	19.454	17.567	Pass
S mar	ax20	5240	21.538	17.595	Pass
N NSL	ax20	5260	19.221	17.575	Pass
A Star	RI	A M AN AN AN	A LANDAR		11230

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	ax20	5320	29.381	17.744	Pass	www.wsct-cert.com	
-	ax20	5500	19.235	17.566	Pass		
514	ax20	5700	23.273	17.616	Pass	11414	
	ax40	5190	42.624	36.040	Pass		
	ax40	5230	41.785	36.079	Pass		
	ax40	5270	40.303	36.096	Pass		
	ax40	5310	49.465	36.166	Pass		
	ax40	5510	39.73	36.013	Pass		
1	ax40	5670	40.047	36.101	Pass	\sim	
	ax80	5210	86.415	74.816	Pass	\wedge	
	ax80	5290	114.75	75.024	Pass		
56	ax80	5530	96.496	75.040	Pass	AVAIAN	
	ax80	5610	95.686	74.797	Pass		

-6dB Bandwidth

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a 5745 16.317 16.854 Pass a 5825 16.306 16.554 Pass n20 5745 16.388 17.841 Pass n20 5825 16.903 17.737 Pass n40 5755 35.088 36.706 Pass n40 5795 35.015 36.349 Pass ac20 5745 16.001 17.782 Pass ac20 5745 16.001 17.782 Pass ac20 5745 35.015 36.349 Pass ac20 5745 16.001 17.782 Pass ac40 5755 33.818 36.457 Pass ac40 5795 35.078 36.342 Pass ac40 5795 73.757 75.373 Pass ac40 5775 73.757 75.373 Pass		Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Verdict
a 5825 16.306 16.554 Pass n20 5745 16.388 17.841 Pass n20 5825 16.903 17.737 Pass n40 5755 35.088 36.706 Pass n40 5795 35.015 36.349 Pass ac20 5745 16.001 17.782 Pass ac20 5745 16.001 17.782 Pass ac20 5745 16.001 17.782 Pass ac40 5755 33.818 36.457 Pass ac40 5795 35.078 36.342 Pass ac40 5795 35.078 36.342 Pass ac40 5795 73.757 75.373 Pass	<hr/>	a	5745	16.317	16.854	Pass
n20 5745 16.388 17.841 Pass n20 5825 16.903 17.737 Pass n40 5755 35.088 36.706 Pass n40 5795 35.015 36.349 Pass ac20 5745 16.001 17.782 Pass ac20 5745 16.001 17.720 Pass ac20 5825 16.204 17.720 Pass ac40 5755 33.818 36.457 Pass ac40 5795 35.078 36.342 Pass ac80 5775 73.757 75.373 Pass	1	а	5825	16.306	16.554	Pass
n20 5825 16.903 17.737 Pass n40 5755 35.088 36.706 Pass n40 5795 35.015 36.349 Pass ac20 5745 16.001 17.782 Pass ac20 5825 16.204 17.720 Pass ac40 5755 33.818 36.457 Pass ac40 5795 35.078 36.342 Pass ac80 5775 73.757 75.373 Pass	X	n20	5745	16.388	17.841	Pass
n40 5755 35.088 36.706 Pass n40 5795 35.015 36.349 Pass ac20 5745 16.001 17.782 Pass ac20 5825 16.204 17.720 Pass ac40 5755 33.818 36.457 Pass ac40 5795 35.078 36.342 Pass ac40 5795 35.078 36.342 Pass ac40 5795 35.078 36.342 Pass ac40 5795 73.757 75.373 Pass		n20	5825	16.903	17.737	Pass
n40 5795 35.015 36.349 Pass ac20 5745 16.001 17.782 Pass ac20 5825 16.204 17.720 Pass ac40 5755 33.818 36.457 Pass ac40 5795 35.078 36.342 Pass ac40 5795 73.757 75.373 Pass	ATTE	n40	5755	35.088	36.706	Pass
ac20 5745 16.001 17.782 Pass ac20 5825 16.204 17.720 Pass ac40 5755 33.818 36.457 Pass ac40 5795 35.078 36.342 Pass ac80 5775 73.757 75.373 Pass	JIFIA	n40	5795	35.015	36.349	Pass
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ax20 5825 16.922 17.572 Pass		ax20	5825	16.922	17.572	Pass
ax40 5755 35.083 36.101 Pass	ATTAC	ax40	5755	35.083	36.101	Pass
ax40 5795 35.082 36.069 Pass	THE PARTY	ax40	5795	35.082	36.069	Pass
ax80 5775 72.55 75.253 Pass		ax80	5775	72.55	75.253	Pass







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