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TEST REPORT

FCC ID: 2ADYY-T16RAPRO

Product: Laptop Computer

Model No.: T16RA Pro

Trade Mark: TECNO

Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Issued Date: 07 April 2024

Issued for:

TECNO MOBILE LIMITED

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

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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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	/				1

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1 Test Certification

Product:

Laptop Computer

Model No .:

T16RA Pro

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:

04 March 2024 to 06 April 2024

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: Checked By: Mo Peiyun (Mo Peiyun)

Approved By:

(Liu Fuxin)

Date:

of April

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EUT Description

1		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	Product:	Laptop Computer
	Model No.:	T16RA Pro
	Trade Mark:	TECNO
/	Operation Frequency:	Band 1: 5180-5240 MHz Band 2: 5260-5320 MHz Band 3: 5500-5700 MHz
		Band 4: 5745-5825 MHz
A	Modulation type:	IEEE 802.11a/n/ac/ax: OFDM/OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)
	Antenna Type:	Integral Antenna
	Antenna Gain	MAIN ANT: 2.02dBi AUX ANT: 2.91 dBi
1	11279	Model: N160
	Rechargeable Li-Polymer Battery:	Nominal Voltage: 11.61V Rated Capacity: 8612mAh Rated Energy: 99.99Wh Limited Charge Voltage: 13.35V
/	Adapter:	Adapter: A879-200500C-US1 Input: 100-240V~50/60Hz 2.5A Output:PD:5V==3A/9V==3A/12V==3A/15V==3A/20V==5A PPS 3.3-11V==5A 55W Max 3.3-21V==5A 100W Max
	Remark:	N/A.



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3 TEST DESCRIPTION

3.1 MEASUREMENT UNCERTAINTY

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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
5/	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
×	6	Temperature	±0.5°C
7	7	Humidity	±2%

17494	WSIG	WHAT	WSG	WHITE	- /
					X
AVE:	THE ATT	WS	T NYS	The No.	SET
WEIGH	Wister	WEIGH	W-191	WATER	
		AVE			× 19
AVE 141	WESTER	WETER	NV-5141	WEIGH	
		19 NVS			H
Sautenion & T	7 Strong Gloup (SA)			X	

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3.2 TEST ENVIRONMENT AND MODE

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	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%)
X	X

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	802.11a
Mode 2	802.11n20
Mode 3	802.11n40
Mode 4	802.11ac20
Mode 5	802.11ac40
Mode 6	802.11ac80
Mode 7	802.11ax20
Mode 8	802.11ax40
Mode 9	802.11ax80
Mode 10	802.11ax160

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.

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3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

				19					1	
	Test					DRTU				
	program									
14		AVE	100	1	Test	Frequency	(MHz)		WSET	
	Mode			/	NCB: 20	MHz		\/		/
	802.11a	5180 MHz	5240 MHz	5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz	X
	802.11n	5180 MHz	5240 MHz	5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz	AVST
2	802.11ac	5180 MHz	5240 MHz	5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz	
	802.11ax	5180 MHz	5240 MHz	5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz	
7.4		IVITIZ	IVITIZ	IVITIZ	NCB: 4		IVITIZ	IVITIZ	IVITIZ	
		5400	5000	5070			5070		5705	
	802.11n	5190 MHz	5230 MHz	5270 MHz	5310 MHz	5510 MHz	5670 MHz	5755 MHz	5795 MHz	
	802.11ac	5190 MHz	5230 MHz	5270 MHz	5310 MHz	5510 MHz	5670 MHz	5755 MHz	5795 MHz	AVISIO
	/	5190	5230	5270	5310	5510	5670	5755	5795	ST. 15 A. S.
X	802.11ax	MHz								
10		_			NCB: 8	BOMHz				
14		5210	5290	5530	5610	5775	1274		ALL THE	
	802.11ac	MHz	MHz	MHz	MHz	MHz		\ /		
	802.11ax	5210	5290	5530	5610	5775		X		X
	002.11ax	MHz	MHz	MHz	MHz	MHz				
	ATH		100	791	NCB: 1	60MHz		WSET		175/41
×	802.11ax	5250 MHz	5570 MHz		/					Ĭ

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.



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3.4 CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Laptop Computer)

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.

	Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	Adapter	Adapter1	ANSI III	AWS!	ADAPTER
	Router	Archer AX6000	X /	TE7AX6000	

Note:

- (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 FLength column.
- "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- The adapter supply by the applicant.

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4 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

1	FCC Part15 Subpart C&E							
	Standard Section	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				
Ź	15.407(a)	Power Spectral Density	PASS	Complies				
	15.407(b)	Unwanted Emissions	PASS	Complies				
	15.207	AC Conducted Emission	PASS ////	Complies				
	15.407(g)	Frequency Stability	PASS	Complies				
4	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				

NOTE:

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

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MEASUREMENT INSTRUMENTS

	214148	Z 1679B	21414		479周	1	1
	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
Ì	Test software	- 17	EZ-EMC	CON-03A	-177	141	Ļ
	Test software	V	MTS8310	-	V-		
	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	
1	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	Ŀ
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
7	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	
	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	
	9*6*6 Anechoic	X	X		11/05/2023	11/04/2024	K
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	- 6	11/05/2023	11/04/2024	7
/	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	7
	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	
_	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
A I	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	l
	Power sensor	Anritsu	MX248XD		11/05/2023	11/04/2024	k
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	
/	SION OF TORRE	/ / / / / / / / / / / / / / / / / / / /	- I I I I I I I I I I I I I I I I I I I		A-7-4	1100	1



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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

MA * NO

CNAS - Registration Number: L3732

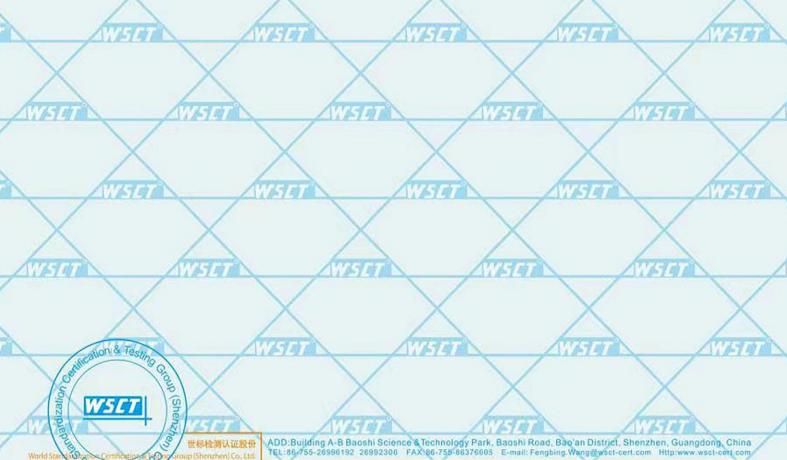
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

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

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)

TOTAL CONTROL				_			
		Class A (dBuV)		Class B (dBuV)		Ctondord	
	FREQUENCY (MHz)	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	

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	4
7	Attenuation	10 dB	(A)
	Start Frequency	0.15 MHz	
	Stop Frequency	30 MHz	
3	IF Bandwidth	9 kHz	

	WEIGH	1777	NVF14	NISTE OF	WEIGH A
NEW	WETE	N/S		799	1/6797
	WEIG	Wester	WEIGH	WESTER	WEIGH
NVFIAT	AVET A	N/F		94	176794
	on & Text	METAL	WEIGH	WSIAT	WHITE
o distributed with the state of	On & Testing God Stendard Ste	N/F		999	72744
World Star Val Ports	で	ADD:Building A-B Bao n)Co. Ltd TEL:86,755-26996192 2	Page 12 of 290	aoshi Road, Bao'an District, She E-mail: Fengbing Wang@wsct-cert.	enzhen, Guangdong, China com Http://www.wsct-com/ Member of the WSCT INC







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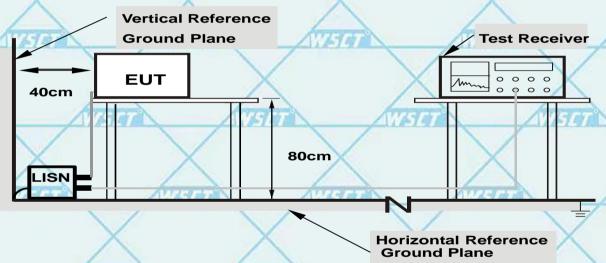
7.1.1 TEST PROCEDURE

- 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

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

7.1.3 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.



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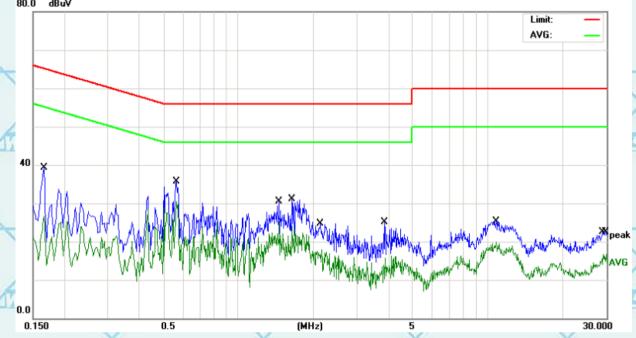
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7.1.4 TEST RESULTS

The worst mode is MIMO802.11n20

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)-worst



_								
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1660	28.89	10.45	39.34	65.15	-25.81	QP
2		0.1660	16.33	10.45	26.78	55.15	-28.37	AVG
3		0.5660	25.22	10.52	35.74	56.00	-20.26	QP
4	*	0.5660	19.92	10.52	30.44	46.00	-15.56	AVG
5		1.4620	14.66	10.62	25.28	46.00	-20.72	AVG
6		1.6420	20.54	10.65	31.19	56.00	-24.81	QP
7		2.1580	7.26	10.71	17.97	46.00	-28.03	AVG
8		3.8420	14.45	10.73	25.18	56.00	-30.82	QP
9		10.8020	14.46	10.89	25.35	60.00	-34.65	QP
10		10.8020	8.93	10.89	19.82	50.00	-30.18	AVG
11		28.9500	11.31	11.19	22.50	60.00	-37.50	QP
12		29.9380	5.52	11.21	16.73	50.00	-33.27	AVG
	1 2 3 4 5 6 7 8 9 10	2 3 4 * 5 6 7 8 9	MHz 1 0.1660 2 0.1660 3 0.5660 4 * 0.5660 5 1.4620 6 1.6420 7 2.1580 8 3.8420 9 10.8020 10 10.8020 11 28.9500	No. Mk. Freq. Level MHz dBuV 1 0.1660 28.89 2 0.1660 16.33 3 0.5660 25.22 4 0.5660 19.92 5 1.4620 14.66 6 1.6420 20.54 7 2.1580 7.26 8 3.8420 14.45 9 10.8020 14.46 10 10.8020 8.93 11 28.9500 11.31	No. Mk. Freq. Level Factor MHz dBuV dB 1 0.1660 28.89 10.45 2 0.1660 16.33 10.45 3 0.5660 25.22 10.52 4 0.5660 19.92 10.52 5 1.4620 14.66 10.62 6 1.6420 20.54 10.65 7 2.1580 7.26 10.71 8 3.8420 14.45 10.73 9 10.8020 14.46 10.89 10 10.8020 8.93 10.89 11 28.9500 11.31 11.19	No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV 1 0.1660 28.89 10.45 39.34 2 0.1660 16.33 10.45 26.78 3 0.5660 25.22 10.52 35.74 4 0.5660 19.92 10.52 30.44 5 1.4620 14.66 10.62 25.28 6 1.6420 20.54 10.65 31.19 7 2.1580 7.26 10.71 17.97 8 3.8420 14.45 10.73 25.18 9 10.8020 14.46 10.89 25.35 10 10.8020 8.93 10.89 19.82 11 28.9500 11.31 11.19 22.50	No. Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV dBuV 1 0.1660 28.89 10.45 39.34 65.15 2 0.1660 16.33 10.45 26.78 55.15 3 0.5660 25.22 10.52 35.74 56.00 4 0.5660 19.92 10.52 30.44 46.00 5 1.4620 14.66 10.62 25.28 46.00 6 1.6420 20.54 10.65 31.19 56.00 7 2.1580 7.26 10.71 17.97 46.00 8 3.8420 14.45 10.73 25.18 56.00 9 10.8020 14.46 10.89 25.35 60.00 10 10.8020 8.93 10.89 19.82 50.00 11 28.9500 11.31 11.19 22.50 60.00	No. Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dBuV dB 1 0.1660 28.89 10.45 39.34 65.15 -25.81 2 0.1660 16.33 10.45 26.78 55.15 -28.37 3 0.5660 25.22 10.52 35.74 56.00 -20.26 4 * 0.5660 19.92 10.52 30.44 46.00 -15.56 5 1.4620 14.66 10.62 25.28 46.00 -20.72 6 1.6420 20.54 10.65 31.19 56.00 -24.81 7 2.1580 7.26 10.71 17.97 46.00 -28.03 8 3.8420 14.45 10.73 25.18 56.00 -30.82 9 10.8020 14.46 10.89 25.35 60.00 -34.65 10 10.8020 8.93 10.89

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



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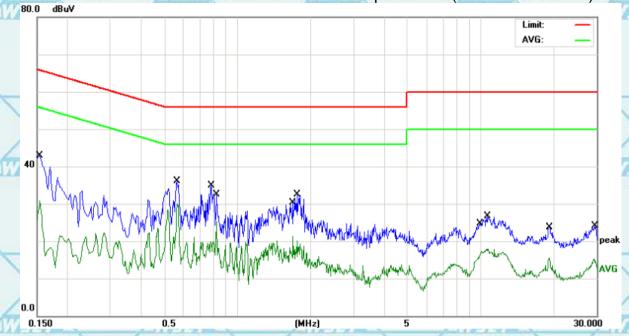


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		_	Reading	Correct	Measure-		0	
No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1539	32.49	10.45	42.94	65.78	-22.84	QP
2		0.1539	20.49	10.45	30.94	55.78	-24.84	AVG
3		0.5660	25.49	10.52	36.01	56.00	-19.99	QP
4	*	0.5660	19.62	10.52	30.14	46.00	-15.86	AVG
5		0.7820	24.37	10.54	34.91	56.00	-21.09	QP
6		0.8180	14.72	10.54	25.26	46.00	-20.74	AVG
7		1.6980	10.65	10.66	21.31	46.00	-24.69	AVG
8		1.7580	21.86	10.67	32.53	56.00	-23.47	QP
9		9.9219	5.65	10.83	16.48	50.00	-33.52	AVG
10		10.6939	15.83	10.88	26.71	60.00	-33.29	QP
11		19.1259	4.34	11.08	15.42	50.00	-34.58	AVG
12		29.5620	12.84	11.20	24.04	60.00	-35.96	QP
/								

Note1:

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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

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

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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	W5 200	V507 3 AV50
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)			
FREQUENCT (MITZ)	PEAK	AVERAGE		
Above 1000	AVSC 74	WSC7 54 WSL		

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

Receiver Parameter	Setting				
Attenuation	SET WS Auto WS CT				
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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7.2.2 DEVIATION FROM TEST STANDARD

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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

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7.2.3

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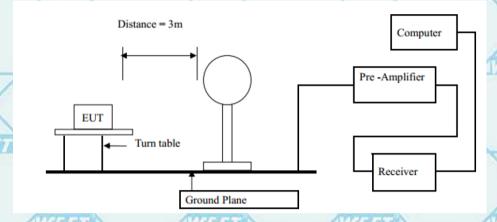
Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Report No.: WSC1-AZLA-K&EZ40300011A-WI-FIZ

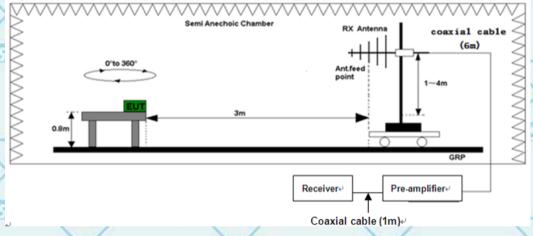
TEST SETUP

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

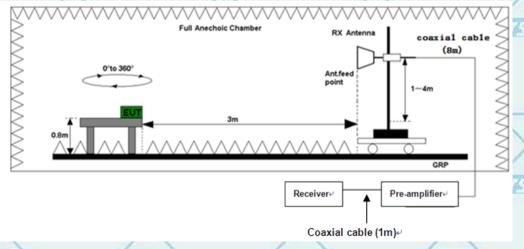




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



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Note:

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Distance extrapolation factor =20 log (specific distance/test distance)(dB);







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No result in this part for margin above 20dB.

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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)

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
	1			P
X	X	X	X	Р

Limit line = sp	pecific limits(dBuV) + dist	tance extrapolation factor	or.	roport
All the X/y/2 on	entation has been lives	ligated, and only worst t	ase is presented in this	тероп.
Wester	WAS BEEN	WHAT	WHA!	WETA
100	100		11014	The same
			\triangle	
AVETOR	WSET	WHAT	WSET	WSTEE
X	X	X	X	X
WEIGH	AVE ET	AVETA	MATERIA	NATE OF
\times	X	X	\vee	\vee
				W6700
ZIVA VALAN		The state of the s	The second secon	The state of the s
AVISTATA	AVSTATA	WETHT	Water	1014
	X	X	X	X
WEIGH	WETTER	YETT	WESTER	WESTER
	X	X	X	X
	X	X	X	X
WETGE	Wister	NVST 01	WSGT	WESTER
WETGE	Wister	WETER	Wister	WEST OF A
WETGE	Wister	NVST 01	WSGT	WESTER
	Wister	WETER	Wister	WEST OF A

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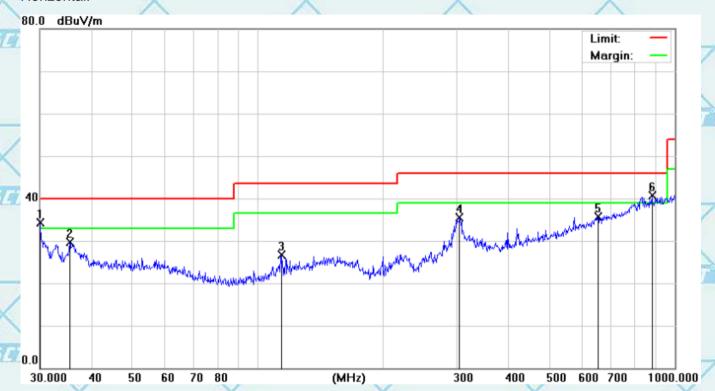
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7.2.6 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

Please refer to following diagram for individual

Below 1GHz

The worst mode is MIMO802.11n20 Horizontal:



\wedge			\wedge		^			
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	14
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	1	30.0000	36.03	-1.73	34.30	40.00	-5.70	QP
2	1	35.3750	31.00	-1.32	29.68	40.00	-10.32	QP
3		113.7143	29.50	-2.74	26.76	43.50	-16.74	QP
4		304.6099	35.29	0.14	35.43	46.00	-10.57	QP
5	1	654.2318	26.65	9.04	35.69	46.00	-10.31	QP
6	*	881.4067	28.05	12.63	40.68	46.00	-5.32	QP

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







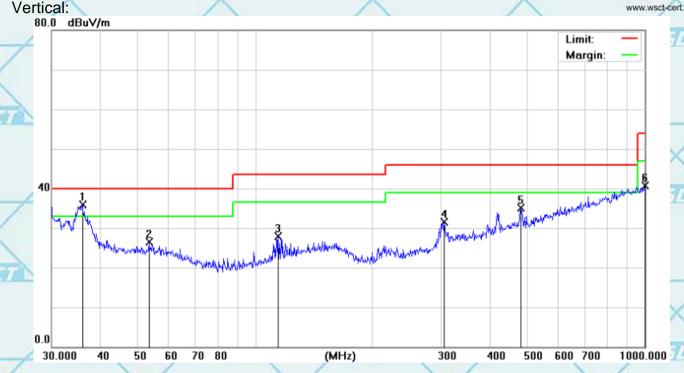




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Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	14
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
* /	36.0007	37.00	-1.12	35.88	40.00	-4.12	QP
41	53.3179	27.90	-1.40	26.50	40.00	-13.50	QP
10.	114.5146	30.55	-2.63	27.92	43.50	-15.58	QP
3	305.6800	31.29	0.19	31.48	46.00	-14.52	QP
1	180.5276	30.24	4.85	35.09	46.00	-10.91	QP
	000.000	26.41	14.33	40.74	54.00	-13.26	QP
	*	MHz * 36.0007	Mk. Freq. Level MHz dBuV * 36.0007 37.00 53.3179 27.90 114.5146 30.55 305.6800 31.29 480.5276 30.24	Mk. Freq. Level Factor MHz dBuV dB * 36.0007 37.00 -1.12 53.3179 27.90 -1.40 114.5146 30.55 -2.63 305.6800 31.29 0.19 480.5276 30.24 4.85	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m * 36.0007 37.00 -1.12 35.88 53.3179 27.90 -1.40 26.50 114.5146 30.55 -2.63 27.92 305.6800 31.29 0.19 31.48 480.5276 30.24 4.85 35.09	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m * 36.0007 37.00 -1.12 35.88 40.00 53.3179 27.90 -1.40 26.50 40.00 114.5146 30.55 -2.63 27.92 43.50 305.6800 31.29 0.19 31.48 46.00 480.5276 30.24 4.85 35.09 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB * 36.0007 37.00 -1.12 35.88 40.00 -4.12 53.3179 27.90 -1.40 26.50 40.00 -13.50 114.5146 30.55 -2.63 27.92 43.50 -15.58 305.6800 31.29 0.19 31.48 46.00 -14.52 480.5276 30.24 4.85 35.09 46.00 -10.91

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = 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 μ V) - Limits (dB μ 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 The worst mode is MIMO802.11n20

Above 1GHz

Frog	Low channel: 5180MHz							
Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
(IVI□Z)	H/V	PK	AV	PK	AV	PK	AV	
10360	V	59.62	39.36	74	54	-14.38	-14.64	
15540	V	59.12	39.29	74	54	-14.88	-14.71	
10360	Н	59.48	40.45	74	54	-14.52	-13.55	
15540	H	58.18	39.18	74	54	-15.82	-14.82	

Frog	Low channel: 5260MHz							
Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
(IVITZ)	H/V	PK	AV	PK	AV	PK	AV	
10,520	V	60.84	40.27	74	54	-13.16	-13.73	
15,780	V	58.77	40.77	74	54	-15.23	-13.23	
10,520	Н	58.42	39.41	74	54	-15.58	-14.59	
15,780	H	59.73	40.73	74	54	-14.27	-13.27	

Freq.	Low channel: 5500MHz							
(MHz)	Ant.Pol	Emission l	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)	
(IVIHZ)	H/V	PK	AV	PK	AV	PK	AV	
11,000	>	58.68	39.32	74	54	-15.32	-14.68	
16,500	V	58.11	40.76	74	54	-15.89	-13.24	
11,000	Ι	59.87	39.37	74	54	-14.13	-14.63	
16,500	Ξ	58.91	39.91	74	54	-15.09	-14.09	

TTT-MILL MIN		I I all all all and the	100000	District Control of the Control of t	40 7 7 3	A REPORT OF THE PARTY OF	AT
Гиол	Low channel: 5745MHz						
Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)
(IVIHZ)	H/V	PK	AV	PK	AV	PK	AV
11,490	V	60.53	39.22	74	54	-13.47	-14.78
17,235	V	58.31	40.70	74	54	-15.69	-13.30
11,490	Ι	58.34	40.88	74	54	-15.66	-13.12
17,235	Н	59.46	40.46	74	54	-14.54	-13.54

Note:

- 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

The EUT'S antenna is met the requirement of FCC part 15C Standard requirement: 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. E.U.T Antenna:

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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

7	-26dB Bandwidth	and 99% Occupied	d Bandwidth:	1072-	Total Control	AULTER
2	Test Method:	a)The transmitter v	was radiated to the	spectrum analyzer in pe	ak hold mode.	CILLIAN
				e emission that is 26 dB		k of the
	V	emission Compare this with the RBW setting of the analyzer. Readjust RBW and repeat				
		measurement as needed until the RBW/EBW ratio is approximately 1%.				
	Tart Francisco Catt					
		ing – 26dB Bandwidtl		Test Equipment Setting		
	a)Attenuation: Auto			a)Span: 1.5 times to 5		
1	b)Span Frequency:		1 1 111	b)RBW: 1 % to 5 % of	the OBW	
		tely 1% of the emission	on bandwidth	c)VBW: ≥ 3 x RBW		X
/	d)VBW: VBW > RE	3 W		d)Detector: Peak		
-	e)Detector: Peak		Annual Property and the Parket	e)Trace: Max Hold	The same of the sa	-
4	f)Trace: Max Hold	1474		1167		Z11579
	g)Sweep Time: Auto					
	6 dB Bandwidth:	\ 				
	Test Method:			spectrum analyzer in pe		
				with KDB789033 D02 v0		
	ATTITUTE		al Information Infra	structure (U-NII) Devices	s - section (C) Emis	sion
	1819	Bandwidth.	7.4	LIPITE	LAD DOOG 11 DO	00.04
1			system was perfor	med in accordance with	KDB662911 D01 v	U2rU1
	·	Emissions			0	V
1	21			Outputs in the Same Bar		
			ectrum width with p	oower higher than 6dB b	elow carrier.	
3	Test Equipment Sett		Allegan	1772		11900
7	a)Attenuation: Auto		1	e)Detector: Peak		
	b)Span Frequency: >	> 6dB Bandwidth	/	f)Trace: Max Hold		
	c)RBW: 100kHz			g)Sweep Time: Auto	X	
	d)VBW: $\geq 3 \times RBV$	W	1			4
		cted Output Power	Measurement:	Angraphyphophic	The state of the s	Sc
	Test Method:			t) was connected to the	nower meter	
	rest wethou.			with KDB789033 D02 v0		esting of
	80			structure (U-NII) Devices		
				ement using a Power M		
			ng a gated RF aver		cter (i ivi) =>b) ivieti	lou i iii c
7				rmed in accordance with	KDB662911 D01 v	v02r01
M.		Emissions	dyotomo wao pone	inioa in accordance with	TREBUOZOTT BOT	VOZIOI
			tters with Multiple (Outputs in the Same Bar	nd /	
				ted output power with m		ems add
			values by mathema		anapio arnorina syst	5.110, add
	Test Equipment Sett	ing: Detector - Avera	ane	ano iorindia.		N.
	Power Spectral D		7.5	116798	1757	
	Test Method:		outnut (antenna nor	t) was connected RF sw	itch to the spectrum	analyzer
1	r lest Method.			with KDB789033 D02 v(
		Unlicenced Nations	al Information Infra	etructura (H-NIII) Davicas		nim Pawar
				structure (U-NII) Devices	s - section (F) Maxim	num Power
	_	Spectral Density (F	PSD).			
4		Spectral Density (Fc)Multiple antenna	PSD).	structure (U-NII) Devices rmed in accordance KD		
4		Spectral Density (F c)Multiple antenna Power	PSD). systems was perfo	rmed in accordance KD	B662911 D01 v02r0	01 in-Band
4		Spectral Density (F c)Multiple antenna Power Spectral Density (F	PSD). systems was perfo		B662911 D01 v02r0	01 in-Band
4		Spectral Density (F c)Multiple antenna Power Spectral Density (F outputs.	PSD). systems was perfo PSD) Measurement	ormed in accordance KD	B662911 D01 v02r0	01 in-Band the
4		Spectral Density (F c)Multiple antenna Power Spectral Density (F outputs. d)When measuring	PSD). systems was performed was performed by SD) Measurement splitst spectral bin of	ormed in accordance KD is (a) Measure and sum	B662911 D01 v02r0 the spectra across	01 in-Band the ectral bin of
4		Spectral Density (F c)Multiple antenna Power Spectral Density (F outputs. d)When measuring output 2 and that fi	PSD). systems was performed by SD) Measurement first spectral bin of the first spectral bin of t	ormed in accordance KD	B662911 D01 v02r0 the spectra across	01 in-Band the ectral bin of
	cotion & Testin	Spectral Density (F c)Multiple antenna Power Spectral Density (F outputs. d)When measuring output 2 and that fi obtain the value fo	PSD). systems was performent PSD) Measurement g first spectral bin of rom the first spectra	ormed in accordance KD is (a) Measure and sum foutput 1 is summed wit all bin of output 3 and so	B662911 D01 v02r0 the spectra across h that in the first spe on up to the Nth ou	on in-Band the ectral bin of tput to
	site ation & Testing G	Spectral Density (F c)Multiple antenna Power Spectral Density (F outputs. d)When measuring output 2 and that fi obtain the value fo the first frequency	PSD). systems was performent PSD) Measurement g first spectral bin of rom the first spectra	ormed in accordance KD is (a) Measure and sum	B662911 D01 v02r0 the spectra across h that in the first spe on up to the Nth ou	on in-Band the ectral bin of tput to
60	ultration & Testing God	Spectral Density (F c)Multiple antenna Power Spectral Density (F outputs. d)When measuring output 2 and that fi obtain the value fo the first frequency the other	PSD). systems was performed by first spectral bin of the summed	ormed in accordance KD is (a) Measure and sum if output 1 is summed wit all bin of output 3 and so spectrum. The summed	B662911 D01 v02r0 the spectra across h that in the first spe on up to the Nth ou	on in-Band the ectral bin of tput to
100	diffication & Testing Gould	Spectral Density (F c)Multiple antenna Power Spectral Density (F outputs. d)When measuring output 2 and that fi obtain the value fo the first frequency the other frequency bins is of	PSD). systems was performent g first spectral bin of rom the first spectra bin of the summed	ormed in accordance KD is (a) Measure and sum foutput 1 is summed with all bin of output 3 and so spectrum. The summed ne way.	B662911 D01 v02r0 the spectra across h that in the first spe on up to the Nth ou	on in-Band the ectral bin of tput to each of
100	illication & Testing Graphs	Spectral Density (F c)Multiple antenna Power Spectral Density (F outputs. d)When measuring output 2 and that fi obtain the value fo the first frequency the other frequency bins is of	PSD). systems was performent g first spectral bin of rom the first spectra bin of the summed	ormed in accordance KD is (a) Measure and sum if output 1 is summed wit all bin of output 3 and so spectrum. The summed	B662911 D01 v02r0 the spectra across h that in the first spe on up to the Nth ou	on in-Band the ectral bin of tput to each of

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and the final result should ≤ 30 dBm. www.wsct-cert.com

Test Equipment Setting:

a)Attenuation: Auto

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

the signal

c)RBW: 1000 kHz d)VBW: 3000 kHz

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

e)Sweep Time: Auto

e)Detector: RMS f)Trace: AVERAGE

Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

Frequency Stability Measurement:

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

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

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 × 106

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

nominal value

g)Extreme temperature is 0°C~40°C

Test Equipment Setting:

a)Attenuation: Auto

b) Span Frequency: Entire absence of modulation emissions bandwidth

c)RBW: 10 kHz d)VBW: 10 kHz

7.4.3 CONFIGURATION OF THE EUT

Same as section 3.4 of this report

7.4.4 EUT OPERATING CONDITION

Same as section 3.5 of this report.

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	7.4.3 LIIVII I		www.wsct-cert.com
	-26dB Bandwidth and 99% Occupied Bandwidth:		
	Limit: No restriction limits.	/ リムナウ (1) イブルナウ (1)	11414
7	-6 dB Bandwidth:		
1	Limit: For digital modulation systems, the mi	nimum 6dB bandwidth shall be at least 500 kHz.	
	Test Equipment Setting:	X	
١	a)Attenuation: Auto	e)Detector: Peak	
	h)Span Fraguency: > 6dP Pandwidth	f)Trace: May Hold	-
ĝ	c)RBW: 100kHz	g)Sweep Time: Auto	
	d)VBW: ≥ 3 x RBW	grewoop Time. Auto	
	Maximum Conducted Output Power Measurement:		
	S5.15~5.2	DE CU-	X
	Limit of Outdoor access point:	Limit of Indoor access point:	Kunta
	The maximum conducted output power over the	The maximum conducted output power over the	7 7 7 7
,	frequency band of operation shall not exceed 1 W	frequency band of operation shall not exceed 1 W	
6	(30dBm) provided the maximum antenna gain does not	(30dBm) provided the maximum antenna gain does	
	exceed 6 dBi. If transmitting antennas of directional gain	not	
١	greater than 6 dBi are used, both the maximum	exceed 6 dBi. If transmitting antennas of directional	
Ž	conducted output power and the maximum power	gain greater than 6 dBi are used, both the maximum	3
Z	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:	ATTTO
-	The maximum conducted output power over the	The maximum conducted output power over the	CIF141
J	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	
ı	antennas with directional gain up to 23 dBi without any	(24dBm) provided the maximum antenna gain does	
7	corresponding reduction in the maximum conducted	not	
Ī	output power or maximum power spectral density. For	exceed 6 dBi. If transmitting antennas of directional	
Ľ	fixed point-to-point transmitters that employ a directional	gain greater than 6 dBi are used, both the maximum	A .
		conducted output power and the maximum power	\ /
	antenna gain greater than 23 dBi, a 1 dB reduction in		
	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	dB	
	antenna gain in excess of 23 dBi.	that the directional gain of the antenna exceeds 6	WEFT
1		dBi.	JANE L'AL
1	⊠5.25-5.35 GHz & ∑		
	The maximum conducted output power over the frequency	bands of operation shall not exceed the lesser of 250	
Š	mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB en		
	antennas of directional gain greater than 6 dBi are used, b		
ž	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	y band of operation shall not exceed 1 W (30dBm). If	X
	transmitting antennas of directional gain greater than 6 dB	Bi are used, both the maximum conducted output	
	power and the maximum power spectral density shall be re		
	the antenna exceeds 6 dBi. However, fixed point-to-point		17514
	transmitting antennas with		/
1	directional gain greater than 6 dBi without any correspond	ling reduction in transmitter conducted power.	
	Power Spectral Density	X	
\			
-	<u></u>		-
Ú	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	X
	□5.470-5.725 GHz	11 dBm/MHz	
	⊠5.725~5.85 GHz	30 dBm/500kHz	Array
-	Frequency Stability Measurement:	/ IF74 / IF74	11-74
		the band of operation under all conditions of normal	
5	operation as specified in the user's ma		
1		ance shall be ± 20 ppm maximum for the 5 GHz band	
1			
b	WELST STEEL	A Array Array	and a

Non Company (90)









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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 ℃
Test Voltage	: DC 11.61V	Humidity	: 56%RH
Test Result	: PASS		

-26dB Bandwidth

	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Verdict	
	a	5180	23.143	16.586	Pass	LA
1	а	5240	23.551	16.568	Pass	
	а	5260	23.425	16.605	Pass	
	а	5320	23.146	16.561	Pass	
1	а	5500	23.263	16.620	Pass	
7	a	5700	22.684	16.610	Pass	
49	n20	5180	23.149	17.688	Pass	
	n20	5240	22.515	17.719	Pass	1
	n20	5260	23.116	17.729	Pass	
	n20	5320	23.364	17.724	Pass	
	n20 /	5500	23.415	17.682	Pass	\
	n20	5700	23.612	17.681	Pass	
	n40	5190	42.606	35.991	Pass	1
	n40	5230	41.844	35.951	Pass	
/	n40	5270	42.846	35.929	Pass	
	n40	5310	42.46	35.977	Pass	
1	n40	5510	41.324	35.956	Pass	
	n40	5670	42.895	36.029	Pass	
4	ac20	5180	22.959	17.713	Pass	
	ac20	5240	22.891	17.684	Pass	
	ac20	5260	22.922	17.681	Pass	/
	ac20	5320	23.303	17.691	Pass	
	ac20	5500	23.295	17.659	Pass	
	ac20	5700	22.537	17.678	Pass	
	ac40	5190	43.236	35.952	Pass	17
	ac40	5230	42.424	35.927	Pass	
/	ac40	5270	42.861	35.919	Pass	
	ac40	5310	43.089	35.978	Pass	
/	ac40	5510	43.132	35.928	Pass	
	ac40	5670	42.906	35.956	Pass	
B	ac80 ac80	5210 5290	83.704	74.928	Pass	
7			83.036 83.254	75.018	Pass Pass	
	ac80 ac80	5530 5610	83.173	75.003 75.022		/
	ax160	5250	160.896	154.21	Pass Pass	
	ax160	5570	160.785	154.62	Pass	
	ax100	5180	21.64	18.862	Pass	
	ax20	5240	21.856	18.840	Pass	77
	ax20	5260	22.897	18.903	Pass	Н
	ax20	5320	22.67	18.863	Pass	-
	ax20	5500	22.199	18.903	Pass	-
/	ax20	5700	22.764	18.905	Pass	-
	ax40	5190	42.219	37.593	Pass	-
1	ax40	5230	41.407	37.508	Pass	-
Stin	ax40	5270	42.1	37.453	Pass	
1	ax40	5310	41.719	37.536	Pass	1
	ax40	5510	41.496	37.556	Pass	-
-	ax40	5670	41.895	37.531	Pass	
	ax80	5210	80.876	76.655	Pass	
+	787	7343	1777-13-3	1003333	ATTO	r

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			V	F		
	ax80	5290	80.338	76.513	Pass	
	ax80	5530	80.529	76.586	Pass	
T	ax80	5610	81.565	76.644	Pass	

-6dB Bandwidth

	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Verdict	
	а	5745	16.324	16.497	Pass	
	a	5825	15.937	16.509	Pass	١
	n20	5745	17.558	17.680	Pass	
	n20	5825	17.56	17.698	Pass	A
1	n40	5755	36.261	36.223	Pass	
	n40	5795	36.317	36.228	Pass	
	ac20	5745	17.53	17.675	Pass	
1	ac20	5825	17.322	17.681	Pass	
F	ac40	5755	36.293	36.222	Pass	
4	ac40	5795	36.041	36.196	Pass	ı
	ac80	5775	75.043	75.009	Pass	/
	ax20	5745	18.758	18.927	Pass	
	ax20	5825	18.558	18.928	Pass	
	ax40	5755	37.604	37.748	Pass	\
	ax40	5795	37.649	37.730	Pass	
	ax80	5775	75.065	76.477	Pass	1

WETER	N/FT 00	N/5/47	N/FIE	WEIGH
W-191	WSI	X	X	WHEE
Wister	X	NV.FIE	WHAT	WETHER
Wister	WSIN	X	X	WATER
WEIGH	X	NETO	WESTER	WESTER
W-191	WETER	VETE	X	WATER

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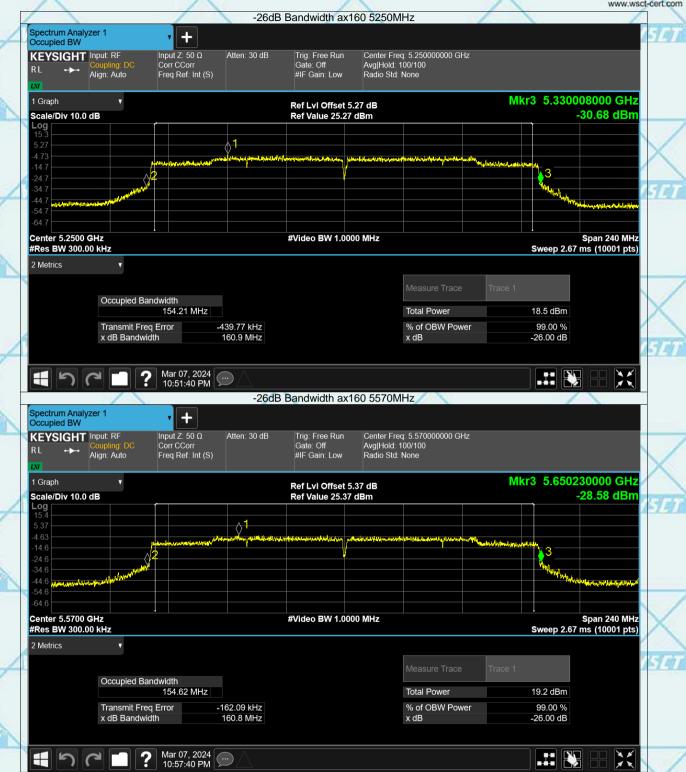




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