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# TEST REPORT

FCC ID: 2AHYJ-TVE1070M

Product: Tablet

Model No.: LincPlus T3

Trade Mark: LincPlus

Report No.: WSCT-A2LA-R&E230300006A-Wi-Fi2

Issued Date: 10 April 2023

Issued for:

Techvision Intelligent Technology Co.,Ltd.

5F, No.2 Building, District D,TCL international E City, Nanshan, ShenZhen, China

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co., Ltd.

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

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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.

World Standard Tradition & Testing Group (Shenzhen) Co., Ltd.









Report No.: WSCT-A2LA-R&E230300006A-Wi-Fi2

Certificate #5768.01

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# Report No.: WSCT-A2LA-R&E230300006A-Wi-Fi2

# 1 Test Certification

Product: Tablet

Model No.: LincPlus T3

Trade Mark: LincPlus

Applicant: Techvision Intelligent Technology Co.,Ltd.

Address: 5F, No.2 Building, District D, TCL international E City, Nanshan, ShenZhen,

China

Manufacturer: Techvision Intelligent Technology Co.,Ltd.

Address: 5F, No.2 Building, District D,TCL international E City, Nanshan, ShenZhen,

China

Date of Test: 10 March 2023 ~ 09 April 2023

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:

Way xian

(Wang Xiang)

Checked By:

(Li Huaibi)

Approved By:

Date:

10 April 20

WSGT

(Liu Fuxin)

KING

WSET

WSE

WSET

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ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road,Baoan District, Shenzhen, Guangdong, China TEL:0086-755-26996192 26996053 FAX:0086-755-86376605 E-mail:lengbing.wang@wscl-cert.com Http://www.wsct-cert.com

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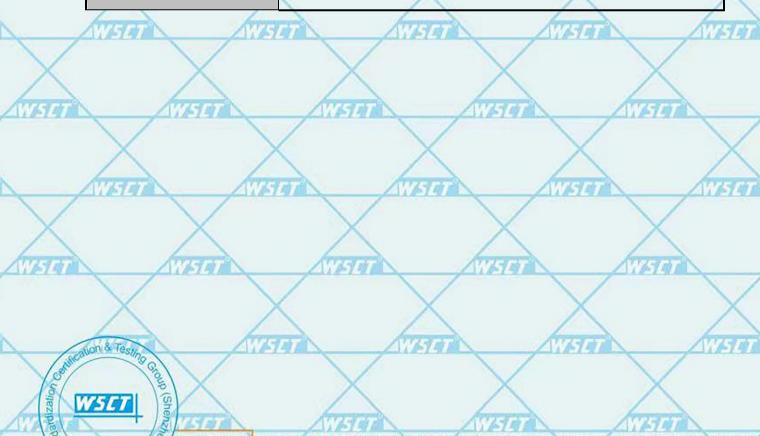
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# **EUT Description**

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Ŀ		
	Product:	Tablet
	Model No.:	LincPlus T3
	Trade Mark:	LincPlus
/	Operation Frequency:	Band 1: 5180-5240 MHz Band 2: 5260-5320 MHz Band 3: 5500-5700 MHz Band 4: 5745-5825 MHz
2	Modulation type:	IEEE 802.11a/n/ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
	Antenna Type:	Integral Antenna
	Antenna Gain	0.20dBi
1	Rechargeable Li-Polymer Battery:	Li-ion Battery: U3158123PV Rated Voltage: 3.8V Rated Capacity: 7000mAh
-	Adapter:	Adapter: MX21PD-U Input: 100-240V~50/60Hz 0.5A Output: 5V===3A/9V===2.22A/12V===1.67A
	Remark:	N/A.



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# 3 TEST DESCRIPTION

## 3.1 MEASUREMENT 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 95 %.

$\sim$		X	5 X
	No.	Item	Uncertainty
57	7	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
X	6	Temperature	±0.5°C
27	7	Humidity	±2%

17574	WEIGH	WHITE	WHAT	17774	
AV J		$\langle \ \ \rangle$			F14.8
WESTER	WASTER	Wister	W-51-07	W-197	
					1574
NISTAT	N/STAT	WHITE	Wester	77679	
					15740
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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

#### 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.





3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING







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/	Test	*#*#3646633#*#*	WATER
	program	" "GG 16666" "	
	Mode	Test Frequency (MHz)	X
	IVIOGE	NCB: 20MHz	
	802.11a	5180 5240 5260 5320 5500 5700 5745 5825 MHz MHz MHz MHz MHz MHz MHz MHz	NISTER /
American	802.11n	5180 5240 5260 5320 5500 5700 5745 5825	
	002.1111	MHz MHz MHz MHz MHz MHz MHz	
	802.11ac	5180 5240 5260 5320 5500 5700 5745 5825 MHz MHz MHz MHz MHz MHz MHz MHz	
	(Maria)	NCB: 40MHz	WATER WATER
/	802.11n	5190 5230 5270 5310 5510 5670 5755 5795	16178
	002.11.11	MHz         MHz         MHz         MHz         MHz         MHz         MHz         MHz           5190         5230         5270         5310         5510         5670         5755         5795	
	802.11ac	5190   5230   5270   5310   5510   5670   5755   5795	X
7		NCB: 80MHz	
	802.11ac	5210 5290 5530 5610 5775	WST
		MHz MHz MHz MHz MHz MHz mg, Channel and Power Controlling Software provided by the customer	
		o control the operating channel as well as the output power level. The RF	X
	output powe	er selection is for the setting of RF output power expected by the	
1	customer ar	nd is going to be fixed on the firmware of the final end product.	WATER AVERTON
7			
1		WETER WETER	MATERIAL
		TIPINE TIPINE	THE IS A
		Arrest Arrest	
-/-	VATA I	11-19-1	TETTE
		X X X	X
7			
7		AVATOR AVATOR	11679
	/		
	X	X	X
1	WSET	WATER	W-747
/			
		X X X	X
4			



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#### 3.4 CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Tablet)

#### 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	1	MX21PD-U	The state of the s	1
2	Earphone	X	N/A	1	1/

#### Note:

DUOM \* PT

- (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 <code>"Length\_"</code> 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:

	A.			
\ #		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
Ý	15.407(a)	Power Spectral Density	PASS	Complies
	15.407(b)	Unwanted Emissions	PASS	Complies
	15.207	AC Conducted Emission	PASS ///5	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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# 5 MEASUREMENT INSTRUMENTS

_	4748		4115741		A79 B		b
	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibratio n Due.	
	Test software		EZ-EMC	CON-03A	NIS	7	
	Test software	7	MTS8310	-	V -	- )	1
	EMI Test Receiver	R&S	ESCI	100005	11/05/2022	11/04/2023	
7	LISN	AFJ	LS16	16010222119	11/05/2022	11/04/2023	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2022	11/04/2023	
1	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2022	11/04/2023	
	Coaxial cable	Megalon	LMR400	N/A	11/05/2022	11/04/2023	
	GPIB cable	Megalon	GPIB	N/A	11/05/2022	11/04/2023	<
	Spectrum Analyzer	R&S	FSU	100114	11/05/2022	11/04/2023	7
7	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2022	11/04/2023	
	Pre-Amplifier	CDSI	PAP-1G18-38	X	11/05/2022	11/04/2023	
	Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2022	11/04/2023	
	9*6*6 Anechoic				11/05/2022	11/04/2023	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2022	11/04/2023	
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2022	11/04/2023	1
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2022	11/04/2023	
7	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
A	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	<
	RF cable	Murata	MXHQ87WA3000		11/05/2022	11/04/2023	
7	Loop Antenna	EMCO	6502	00042960	11/05/2022	11/04/2023	L
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2022	11/04/2023	
1	Power meter	Anritsu	ML2487A	6K00003613	11/05/2022	11/04/2023	
	Power sensor	Anritsu	MX248XD	TIE! THE	11/05/2022	11/04/2023	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2022	11/04/2023	K











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## **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 22. 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

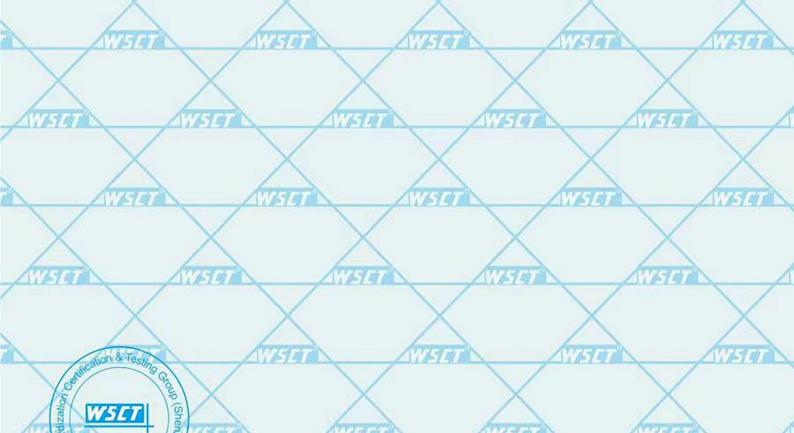
FCC - Designation Number: CN1303

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

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

Ź	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	FREQUENCT (MINZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
	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		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		

WEIDT	West.	AVE	14	WE THE	ATE THE
WATER	WSI	WSH	W5191	N/6-1-916	
WEIGH	X		70	WESTER	Wiston
NVET III	NV5101	WHITE	AWS 191	West of a	
ation & Teste	West		741	WSI	WSU

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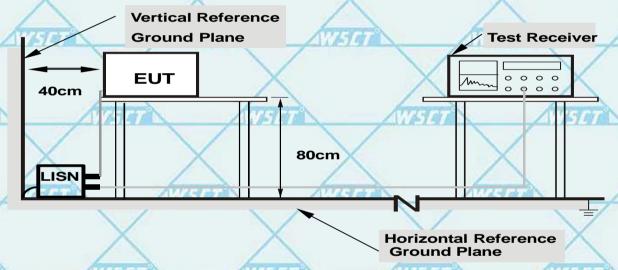
#### 7.1.1 TEST PROCEDURE

- 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.





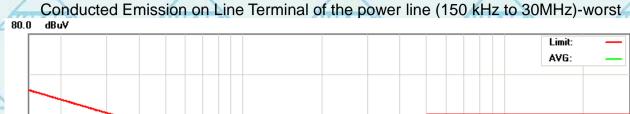


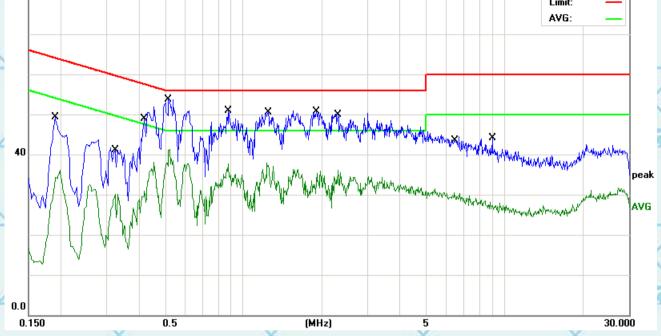


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#### **TEST RESULTS**





1	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB	dBuV	dBu∀	dB	Detector
	1		0.1900	38.90	10.45	49.35	64.03	-14.68	QP
	2		0.3220	19.72	10.48	30.20	49.65	-19.45	AVG
	3		0.4180	38.40	10.50	48.90	57.49	-8.59	QP
•	4		0.5180	38.51	10.52	49.03	56.00	-6.97	QP
_	5	*	0.5220	30.78	10.52	41.30	46.00	-4.70	AVG
	6		0.8740	27.13	10.54	37.67	46.00	-8.33	AVG
	7		0.8780	40.29	10.54	50.83	56.00	-5.17	QP
Ì	8		1.2300	27.24	10.59	37.83	46.00	-8.17	AVG
	9		1.8980	39.93	10.69	50.62	56.00	-5.38	QP
•	10		2.2980	25.44	10.71	36.15	46.00	-9.85	AVG
93	11		6.4340	19.77	10.77	30.54	50.00	-19.46	AVG
7	12		8.9940	33.24	10.81	44.05	60.00	-15.95	QP

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







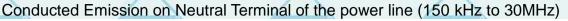


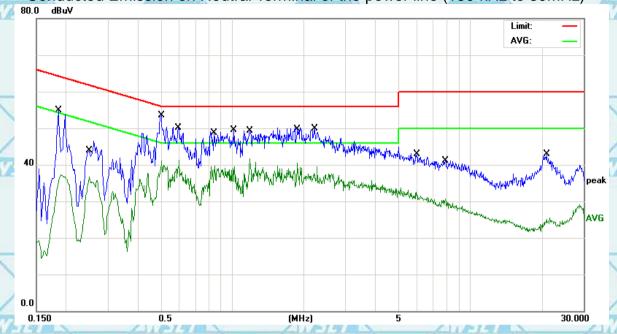


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2	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		-
Á			MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Ł
	1		0.1860	44.39	10.45	54.84	64.21	-9.37	QP	
	2		0.2500	26.26	10.46	36.72	51.75	-15.03	AVG	
	3		0.5020	38.90	10.52	49.42	56.00	-6.58	QP	
7	4		0.5980	30.77	10.53	41.30	46.00	-4.70	AVG	1
	5		0.8460	29.11	10.54	39.65	46.00	-6.35	AVG	
,	6		1.0180	39.04	10.55	49.59	56.00	-6.41	QP	,
7	7	*	1.1860	31.04	10.58	41.62	46.00	-4.38	AVG	Ī
	8		1.8860	29.88	10.69	40.57	46.00	-5.43	AVG	
	9		2.2139	39.12	10.71	49.83	56.00	-6.17	QP	
	10		5.9860	32.16	10.76	42.92	60.00	-17.08	QP	
7	11		7.8900	19.92	10.79	30.71	50.00	-19.29	AVG	_
	12		20.9300	31.75	11.06	42.81	60.00	-17.19	QP	T
										_

#### Note:

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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	200	3 11/5/
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)		
FREQUENCT (IVII12)	PEAK	AVERAGE	
Above 1000	AV51.74	WSCT 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
Danu)	

Receiver Parameter	Setting			
Attenuation	SET WS 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			

W5ET







DEVIATION FROM TEST STANDARD

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#### 7.2.1 TEST PROCEDURE

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- 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

		N FROM TEST STANDA	RD	117-14	AVETON
AWA	No deviation	$\times$	747 W	999	5141
	WHITE	Waster	WEIGH	WEIGH	WETER
A17		55197 W	57.07 W	579	679
	WEIGH	Waster	W/519	WSTAT	N/S/47
6		$\times$			679.6
	X	WSIA	W/5141	NSIII	VI-3100
1	WSGT WSGT	$\times$	$\times$		2300

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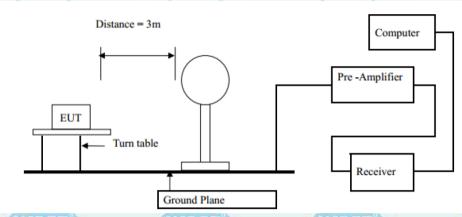


Report No.: WSCT-A2LA-R&E230300006A-Wi-Fi2

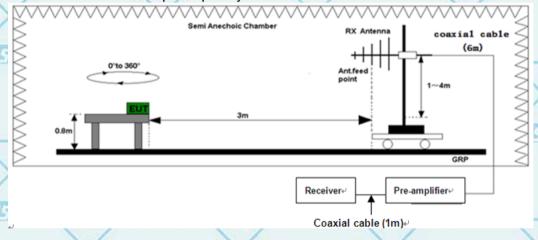
## 7.2.3 TEST SETUP

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

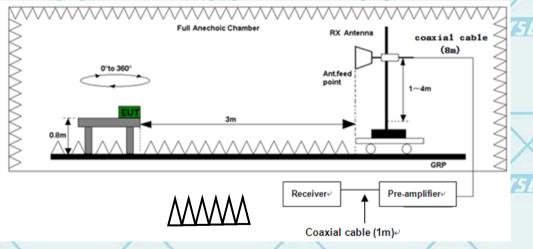




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



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#### 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	-		Р
X	X	X	X	Р

	\ / <del>-</del>	/	\ /	/	Р	1
	X	X-	X	- X	Р	X
\	WEIGH	17674	WHI	NV-74		17274
Not	te:		/			
No	o result in this part for m	argin above 20dB.		X	X	
	stance extrapolation fac					
	mit line = specific limits(				AUZS HA	
All	the x/y/z orientation has	been investigated	, and only worst ca	ase is presented in	this report.	
	ATTENDED OF	MARIA	MINTER	Kersa	1	ATTE
_	11819	11-14	July 19	11-191		11-14
				X		
		-				
ATATA AL	11414	17-1		1474	17-79	
		1				1

Krita Krita	720	234	234	72300
				A.R. A. T. MARINE

W-741	17/5/41	WHAT	AW5147	WATER

X		X	X	X
AVISION	NIF!	W519 II	AVISTATA	AWISTOTAL

1774	17274	WHI	7	17574	177	741
						1



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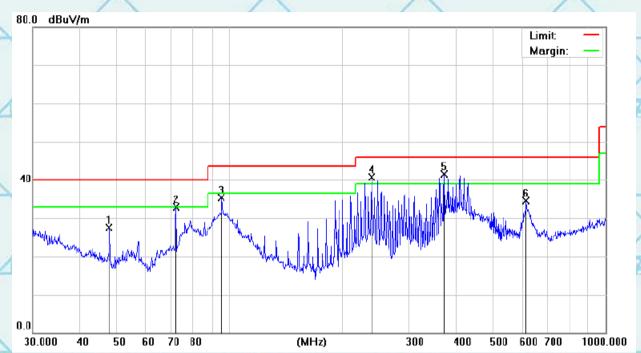
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## 7.2.6 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

Please refer to following diagram for individual

#### Below 1GHz

#### Horizontal:



×	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	144
2			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	,	47.8260	31.28	-3.72	27.56	40.00	-12.44	QP
	2	1	72.0843	40.04	-7.04	33.00	40.00	-7.00	QP
	3		95.0930	40.09	-4.84	35.25	43.50	-8.25	QP
×	4	ļ	238.3102	45.93	-5.25	40.68	46.00	-5.32	QP
	5	*	372.0045	42.82	-1.28	41.54	46.00	-4.46	QP
L	6		614.2142	33.01	1.54	34.55	46.00	-11.45	QP
					$\sim$		-		

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











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1000.000



(MHz)

300

400

500

600 700

								1
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	191
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	-	32.9791	28.99	3.65	32.64	40.00	-7.36	QP
2	XII	47.8260	38.13	-3.72	34.41	40.00	-5.59	QP
3		56.9912	37.63	-5.85	31.78	40.00	-8.22	QP
4	!	95.0930	41.40	-4.84	36.56	43.50	-6.94	QP
45	4	238.3102	42.01	-5.25	36.76	46.00	-9.24	QP
6		361.7139	38.27	-1.42	36.85	46.00	-9.15	QP

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

#### Note:

0.0 30.000

40

50

60

70 80

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 (dBµV) = Limit stated in standard

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











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## **TEST RESULTS (ABOVE 1GHZ)**

#### **Above 1GHz**

	F**0.0	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	60.77	40.59	74 🚄	54	-13.23	-13.41
	15540	V	58.23	40.95	74	54	-15.77	-13.05
1	10360	Н	58.81	39.10	74	54	-15.19	-14.90
	15540	Н	58.09	39.09	74	54	-15.91	-14.91

í	Гиол	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	58.58	39.72	74	54	-15.42	-14.28	
	15540	V	58.79	39.38	74	54	-15.21	-14.62	
7	10360	H	58.76	39.74	74	54	-15.24	-14.26	
	15540	Η	58.12	39.12	74	54	-15.88	-14.88	

Frog		Low channel: 5180MHz					
Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
(IVITZ)	H/V	PK	AV	PK	AV	PK	AV
10360	V	58.12	39.96	74	54	-15.88	-14.04
15540	V	59.66	40.75	74	54	-14.34	-13.25
10360	STATE OF	58.63	39.54	74	54	-15.37	-14.46
15540	H	58.23	39.23	74	54	-15.77	-14.77

				^				
Frog	Low channel: 5180MHz							
Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
(IVIDZ)	H/V	PK	AV	PK	AV	PK	AV	
10360	V	59.30	40.00	74	54	-14.70	-14.00	
15540	V	58.36	40.22	74	54	-15.64	-13.78	
10360	144	58.06	40.88	74	54	-15.94	-13.12	
15540		59.24	40.24	74	54	-14.76	-13.76	

#### Note:

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- 2. Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

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

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

Limit (dBµV) = Limit stated in standard

Margin (dB) = Level (dB $\mu$ V) – Limits (dB $\mu$ V)

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.

#### E.U.T Antenna:

The Wi-Fi antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is 0.20dBi.

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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

5					1				
¢	-26dB Bandwidth	and 99% Occupie	d Bandwidth:	1072	Total Control	AUZTE			
	Test Method:	a)The transmitter	was radiated to the	spectrum analyzer in pe	eak hold mode.	THE STATE OF THE S			
				emission that is 26 dB		ak of the			
	X			setting of the analyzer					
				V/EBW ratio is approxi		1			
	Test Equipment Sett	ing – 26dB Bandwidt		Test Equipment Setting					
	a)Attenuation: Auto		7.97 (1)	a)Span: 1.5 times to 5.0 times the OBW					
/	b)Span Frequency: >	> 26dB Bandwidth		b)RBW: 1 % to 5 % of the OBW					
		tely 1% of the emission	on bandwidth	c)VBW: ≥ 3 x RBW					
Į.	d)VBW: VBW > RE	3W		d)Detector: Peak					
	e)Detector: Peak			e)Trace: Max Hold					
ľ	f)Trace: Max Hold	74741	111-141			AWSET			
	g)Sweep Time: Auto	)							
	6 dB Bandwidth:	-\Th - titt			and the later and a				
	Test Method:			spectrum analyzer in pe		Taatima af			
				with KDB789033 D02 v structure (U-NII) Device					
	WST	Bandwidth.	iai iliioilliation iliiras	structure (O-Mil) Device	s - section (C) Emis	551011			
	7		system was perfori	med in accordance with	KDB662911 D01	/02r01			
1	8	Emissions	de de la communicación de	nod in doodradnoo min	NBB002011 B01 V	702101			
			itters with Multiple C	Outputs in the Same Ba	nd.	X			
١				ower higher than 6dB b					
Ç	Test Equipment Sett		Allegan	1111		ATTURNET			
	a)Attenuation: Auto		10171	e)Detector: Peak	134	The same of the sa			
	b)Span Frequency: >	> 6dB Bandwidth		f)Trace: Max Hold					
	c)RBW: 100kHz		X	g)Sweep Time: Auto	X				
	d)VBW: ≥ 3 x RBV	N							
		cted Output Powe		ATTITUTE	1112-52				
	Test Method:			t) was connected to the					
l				with KDB789033 D02 v					
				structure (U-NII) Device					
١				ement using a Power M	eter (PM) =>b) Met	thod PM-G			
E	-		ng a gated RF aver		h KDD662011 D01	v02r01			
Z		Emissions	a systems was peno	rmed in accordance wit	11 KDB002911 D01	V02101			
			itters with Multiple C	Outputs in the Same Ba	nd				
	X					stems add			
	d)When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.								
	Test Equipment Sett	ing: Detector - Aver			la constant	-			
	Power Spectral D		74/1	ATATA					
	Test Method:	a)The transmitter		t) was connected RF sv					
				with KDB789033 D02 v					
L				structure (U-NII) Device:	s - section (F) Maxir	mum Power			
		Spectral Density (							
ý			systems was perfo	rmed in accordance KD	B662911 D01 v02	01 in-Band			
۰		Power	7			7			

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obtain the value for

frequency bins is computed in the same way.

the other

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e)For 5.725~5.85 GHz, the measured result of PSD level must add 10log(500kHz/RBW)

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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 2 and that from the first spectral bin of output 3 and so on up to the Nth output to

the first frequency bin of the summed spectrum. The summed spectrum value for each of

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and the final result should ≤ 30 dBm.

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

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

e)Sweep Time: Auto

e)Detector: RMS

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:

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

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

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

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

**CONFIGURATION OF THE EUT** 7.4.3

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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	7.4.5 LIMIT		www.wsct-cert.com
	-26dB Bandwidth and 99% Occupied Bandwidth:		-
	Limit: No restriction limits.	/ 1747年間	116141
2	-6 dB Bandwidth:		
		inimum 6dB bandwidth shall be at least 500 kHz.	
	Test Equipment Setting:		
	a)Attenuation: Auto	e)Detector: Peak	
7	b)Span Frequency: > 6dB Bandwidth	f)Trace: Max Hold	
-	C)NBW. TOOKITZ	g)Sweep Time: Auto	
	d)VBW: ≥ 3 x RBW		\/
	Maximum Conducted Output Power Measurement:	25.011	X
	∑5.15~5.2		
	Limit of Outdoor access point:	Limit of Indoor access point:	KILLER
	The maximum conducted output power over the	The maximum conducted output power over the	115141
1	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	not 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	
ý	spectral density shall be reduced by the amount in dB	conducted output power and the maximum power	
7	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	X
	125 mW (21 dBm).	dBi.	
	Limit of Fixed point-to-point access points:	∐Limit of Mobile and portable client devices:	1117-1-1
	The maximum conducted output power over the	The maximum conducted output power over the	111111
/	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 .	
1	antennas with directional gain up to 23 dBi without any	(24dBm) provided the maximum antenna gain does	
÷	corresponding reduction in the maximum conducted	not	_
Ż	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 dB	
	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	
	antenna gant in excess of 25 dbl.	dBi.	4777
Ĭ,	⊠5.25-5.35 GHz & ∑		/
	The maximum conducted output power over the frequency		
	mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB e		
7	antennas of directional gain greater than 6 dBi are used, I		
3	maximum power spectral density shall be reduced by the		
H.	exceeds 6 dBi.		
	∑5.725~5.	85 GHz	
	The maximum conducted output power over the frequence		X
	transmitting antennas of directional gain greater than 6 dE		
	power and the maximum power spectral density shall be re		A STATE OF THE STA
	the antenna exceeds 6 dBi. However, fixed point-to-point	U-NII devices operating in this band may employ	CUPITU
1	transmitting antennas with	line reduction in the position can direct all parts	
	directional gain greater than 6 dBi without any correspond	aing reduction in transmitter conducted power.	
1	Power Spectral Density		
-	∑5.15~5.2		
Ý	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	11/191
/	Frequency Stability Measurement:		1
3	In-band emission is maintained within	the band of operation under all conditions of normal	
1	operation as specified in the user's ma		
1	(IEEE802.11n specification).	ance shall be ± 20 ppm maximum for the 5 GHz band	
1	(IEEEOUZ, I III SPECIIICALIOII).	Augustus Land	The same of the sa

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#### 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
Test Voltage	: DC 3.8V	Humidity	: 56%RH
Test Result	: PASS	11/4/4	11479

#### -26dB Bandwidth

Janawiatii								
	Band	Channel	Frequency (MHz)	-26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict	
		1071		20MHz(IEEE 802.11a/r	n/ac)	1014		
	V	Low	5180	23.6	20.211	0.5	Pass	
		High	5240	23.018	20.019	0.5	Pass	
	2	Low	5260	23.632	19.979	0.5	Pass	
1		High	5320	23.258	19.972	0.5	Pass	
	W <sub>3</sub> _	Low	5500	22.303	19.845	0.5	Pass	
		High	5700	23.137	20.092	0.5	Pass	
			/ac)					
	1	Low	5190	41.809	39.61	0.5	Pass	
1		High	5230	44.075	39.673	0.5	Pass	
	2	Low	5270	41.097	39.507	0.5	Pass	
		High	5310	42.49	39.965	0.5	Pass	
	3	Low	5510	42.188	39.501	0.5	Pass	
		High	5670	41.98	39.939	0.5	Pass	
80MHz(IEEE 802.11ac)								
	/1	Low	5210	83.522	79.389	0.5	Pass	
)	2	High	5290	83.069	79.228	0.5	Pass	
-	3	Low	5530	82.27	79.045	0.5	Pass	
		High	5610	83.925	79.452	0.5	Pass	

#### -6dB Bandwidth

ab banawath										
Ò	Band	Channel	Frequency (MHz)	-6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict			
20MHz(IEEE 802.11a/n/ac)										
		Low	5745	17.53	17.527	> 0.5	Pass			
	4	High	5825	17.509	17.536	> 0.5	Pass			
		40MHz(IEEE 802.11n/ac)								
d	144	Low	5755	35.929	35.825	> 0.5	Pass			
4	THE LA	High	5795	36.294	35.809	> 0.5	Pass			
	4	Low	5775	75.066	75.178	> 0.5	Pass			









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## 20MHz(IEEE 802.11a/n/ac)

Band1











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## 40MHz(IEEE 802.11n/ac)

Band1 -26dB Bandwidth and 99% Occupied Bandwidth (CH Low) Spectrum Analyzer 1 Occupied BW + Center Freq: 5.190000000 GHz Avg|Hold: 100/100 Input Z: 50 Ω Corr CCorr Atten: 30 dB KEYSIGHT Input: RF Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None Mkr3 5.209823000 GHz Ref LvI Offset 5.22 dB Ref Value 25.22 dBm -30.79 dBm Scale/Div 10.0 dB Center 5.19000 GHz #Res BW 300.00 kHz Span 60 MHz Sweep 1.33 ms (10001 pts) #Video BW 1.0000 MHz 2 Metrics Occupied Bandwidth 35.866 MHz Total Power 13.8 dBm Transmit Freq Error 17.615 kHz % of OBW Power 99.00 % x dB Bandwidth 39.61 MHz x dB -26.00 dB -26dB Bandwidth and 99% Occupied Bandwidth (CH High) Spectrum Analyzer 1 Occupied BW + Center Freq: 5.230000000 GHz Avg|Hold: 100/100 Input Z: 50 Ω Corr CCorr KEYSIGHT Input: RF Atten: 30 dB Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None Mkr3 5.249855000 GHz Ref Lvi Offset 5.22 dB Ref Value 25.22 dBm Scale/Div 10.0 dB -31.43 dBm  $\Diamond^{1}$ Center 5.23000 GHz #Res BW 300.00 kHz Span 60 MHz Sweep 1.33 ms (10001 pts) #Video BW 1.0000 MHz 2 Metrics Occupied Bandwidth 35.956 MHz Total Power 13 7 dBm 18.701 kHz 39.67 MHz Transmit Freq Error % of OBW Power 99.00 % -26.00 dB x dB Bandwidth x dB Mar 28, 2023 4:52:07 PM \* \* \* \*





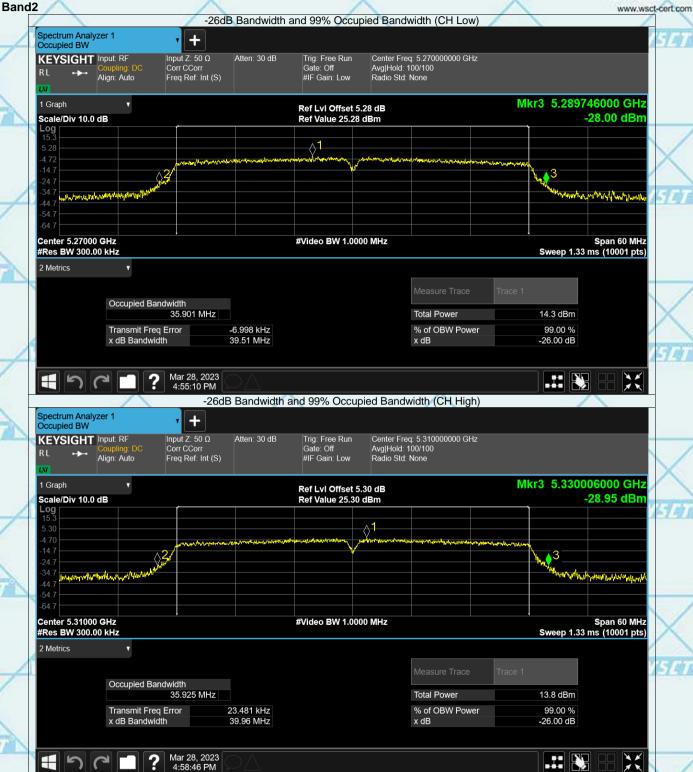




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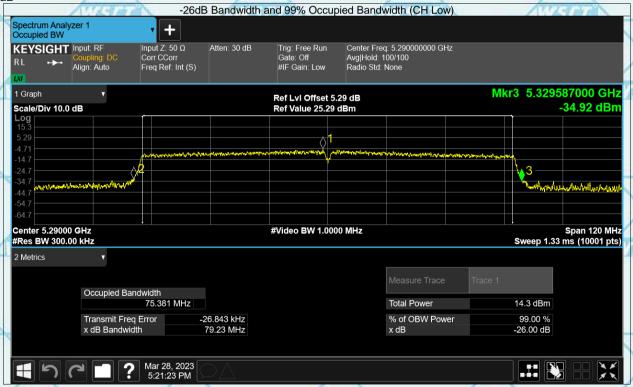
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#### 80MHz(IEEE 802.11ac) Band1











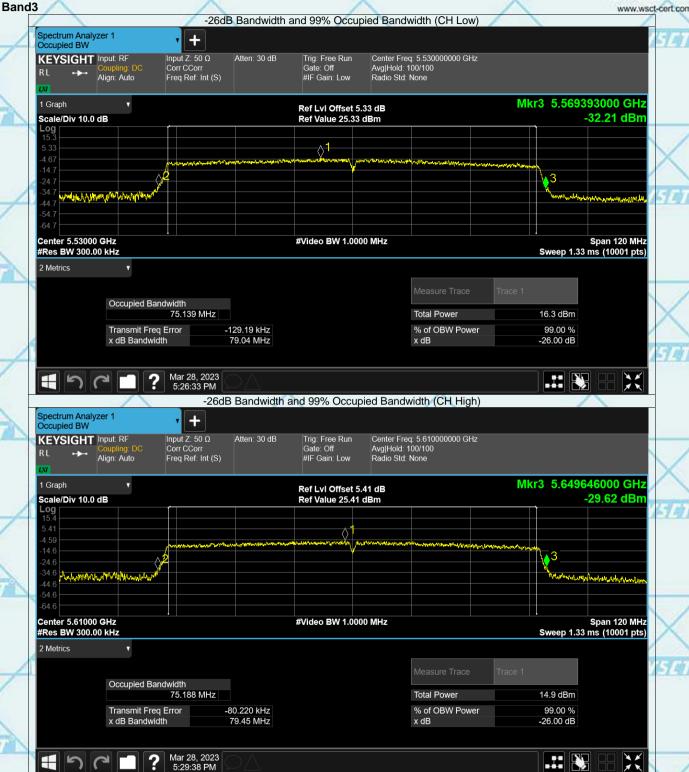




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## -6dB Bandwidth 20MHz(IEEE 802.11a/n/ac)









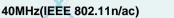


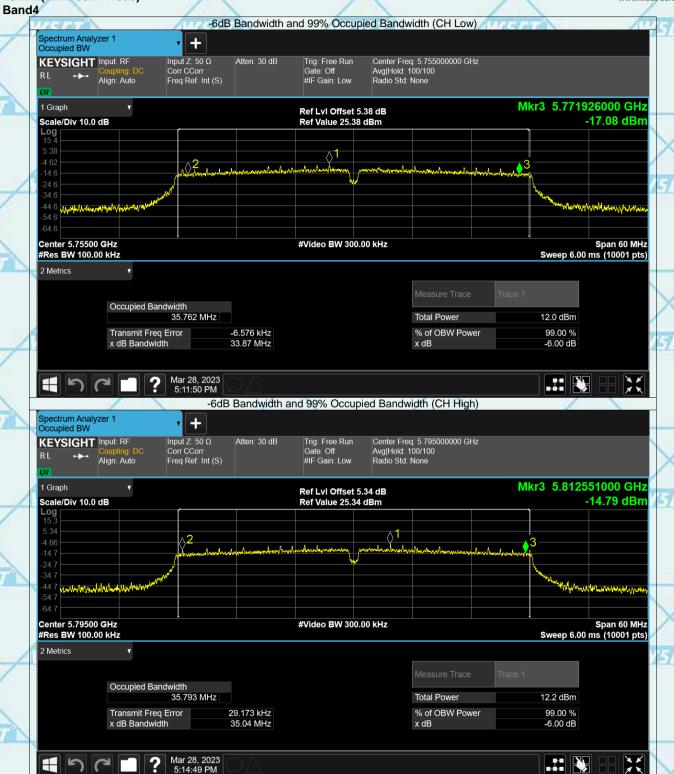


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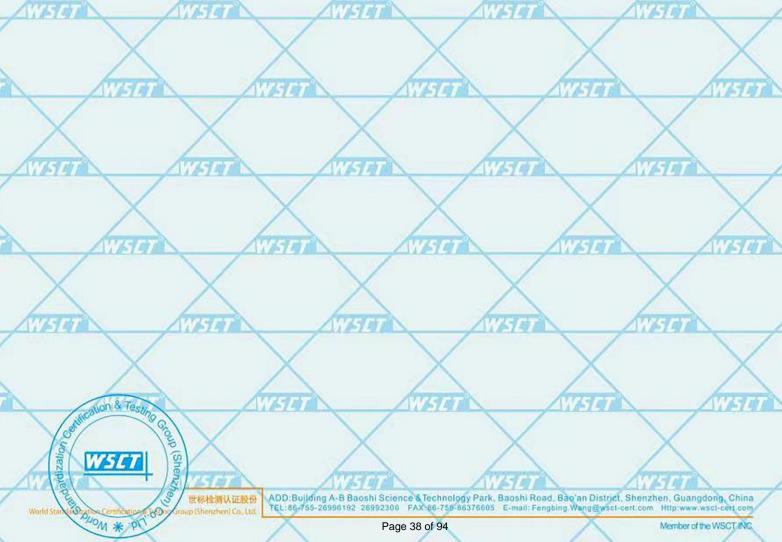
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