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TEST REPORT

FCC ID: 2ADYY-T1

Product: Megabook

Model No.: T1

Additional Model No: N/A

Trade Mark: TECNO

Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi1

Issued Date: 01 August 2022

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

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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Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi1

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Certificate Number 5768.01

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Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi1

1. Test Certification

Product:	Moraback
Froduct.	Megabook
Model No.:	T1
Additional Model No.:	N/A WSET WSET
Trade Mark:	TECNO
Applicant:	TECNO MOBILE LIMITED WS CT
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	TECNO MOBILE LIMITED WSET WSET
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Date of Test:	13 July 2022 ~ 27 July 2022 W 5 CT W 5 CT
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247

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:

(Wang Xiang)

Checked By:

(Li Huaibi)

Approved By:

(Wang Fengbing)

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2. Test Result Summary

	Requirement	CFR 47 Section	Result
0	Antenna requirement	§15.203/§15.247 (c)	PASS
	AC Power Line Conducted Emission	§15.207	PASS
	Conducted Peak Output Power	§15.247 (b)(3) §2.1046	W5/PASS
0	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS WSET
	Power Spectral Density	§15.247 (e)	PASS
	Band Edge W50	1§5.247(d) §2.1051, §2.1057	W5 PASS
0	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

Note:

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

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3. EUT Description

/	Product:	Megabook	4
	Model No.:	T1 X	
7	Additional Model No.:	N/A WSET WSET	
	Trade Mark:	TECNO	
	Operation Frequency:	2412MHz~2462MHz (802.11b/g/n/ax(HT20)) 2422MHz~2452MHz (802.11n/ax(HT40))	
	Channel Separation:	5MHz	
7	Modulation type:	DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b OFDM/OFDMA(BPSK,QPSK,16QAM,64QAM,256QAM,102 4QAM) for IEEE 802.11g/n/ax	
	Antenna Type:	Integral Antenna	
	Antenna Gain	4.44dBi	/
	Power supply:	Rechargeable Li-ion Polymer Battery: 156 Rated Voltage: 11.55V Rated Capacity: 6060mAh/69.99Wh Typical Capacity:6160mAh/71.14Wh	A
	Adapter:	Limited Charge Voltage: 13.2V Adapter: TCW-A61S-65W Input: 100-240V~50/60Hz 1.5A Max Output:5.0V==3.0A/9.0V==3.0A/12.0V==3.0A/15.0V==3.0A/20 .0V3.25A	
	Remark:	N/A.	

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Operation Frequency each of channel For 802.11b/g/n/ax(HT20)

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	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
			71111 M W M		71111151E		Z 1 1 1 Z 5 Z 1	
7		2412MHz	4	2427MHz		2442MHz	10	2457MHz
	2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
	3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n/ax (HT40)

-						<u> </u>		
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	WELT		4-	2427MHz	WISE	2442MHz	W/S/	
7		1	5	2432MHz	8	2447MHz		-
	3	2422MHz	6	2437MHz	9	2452MHz		X

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/g/n/ax (HT20)

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Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n/ax (HT40)

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Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C W5ET W5ET
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The
WSET WSET	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.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Toport and donnou do followo.						
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.						
	lode					
80	2.11b					
W5ET W5ET 80	2.11g <i>5_E</i> 7 <i>W5_E</i> 7					
802.11	n/ax(H20)					
802.11	n/ax(H40)					
Final Test Mode:						
Operation mode:	Keep the EUT in continuous transmitting with modulation					

CFor WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n (H20) Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

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4.2. Description of Support Units

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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.

0	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	Adapter1/ Adapter2	1	1	ADAPTER

Note:

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- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

WSET	WSET	WSET	WSET	WSET	
					X
W	W.5	ET° W5	ET° W5		WSET [°]
WSET	WSET	WSET	WSET	WSET	X
W	W5	ET W5	WS	ET .	WSET [®]
WSLT	WSET	WSET	WSET	WSET	
					X
Settification & To	W.5	ET [®] W5	ET° WS		WSET°

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Facilities and Accreditations

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5.1. Facilities

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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."

5.2. ACCREDITATIONS

China National Accreditation Service for Conformity Assessment (CNAS) Registration number NO: L3732

American Association for Laboratory Accreditation(A2LA)

Registration NO: 5768.01

Copies of granted accreditation certificates are available for downloading from our web site, http://www.wsct-cert.com

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5.3 Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission Test	±3.2dB
2	RF power, conducted	±0.16dB
3W5L	Spurious emissions, conducted w577	±0.21dB
4	All emissions, radiated(<1GHz)	±4.7dB
5	All emissions, radiated(>1GHz)	±4.7dB
6	Temperature	±0.5°C
7	Humidity	±2.0%

	7 Humidity	X	±2.0%	ó
À	WSET	VSET WSET	WSET	WSET
	WSET WSET	W5ET	WSET	WSET
<u>}</u>	WSET	VSET WSET	WSET	WSET
	WSET WSET	WSET	WSLT	WSET
A	WSET	VSET WSET	WSET	WSET
	WSET WSET	WSET	WSET	WSET
	sion & Tees	VSET WSE	WSCT	WSET
	World Stankas Zation Certification Testing Group (Shenzhen) Co., Ltd.	WSET	WSET	WSET
	World Stanta Pration Certification Techno Group (Shenzhen) Co., Ltd.	ADD:Building A-B Baoshi Science & Technold TEL:86-755-26996192 26992306 FAX:86-755-	ogy Park, Baoshi Road, Bao'an District, S 86376605 E-mail: Fengbing.Wang@wsct-ce	Shenzhen, Guangdong, China rt.com Http://www.wsct-cert.com

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5.4 MEASUREMENT INSTRUMENTS

	3.4 WILAGOILLIAI HASTINOMILIATS					www.wsct-ce
	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibrati on Due.
	Test software		EZ-EMC	CON-03A	-	Χ-
	EMI Test Receiver	R&S	ESCI	100005	11/05/2021	11/04/2022
9	LISN	AFJ	LS16	16010222119	11/05/2021	11/04/2022
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2021	11/04/2022
(Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2021	11/04/2022
	Coaxial cable	Megalon	LMR400	N/A	11/05/2021	11/04/2022
	GPIB cable	Megalon	GPIB	N/A	11/05/2021	11/04/2022
4	Spectrum Analyzer	R&S	V5 FSU	100114	11/05/2021	11/04/2022
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2021	11/04/2022
	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2021	11/04/2022
	Bi-log Antenna	SUNOL Sciences	JB3 W5/	A021907	11/05/2021	11/04/2022
	9*6*6 Anechoic	/	\ <u></u>	-	11/05/2021	11/04/2022
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2021	11/04/2022
4	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2021	11/04/2022
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2021	11/04/2022
	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
_	RF cable	Murata	MXHQ87WA3000	Nuclean	11/05/2021	11/04/2022
4	Loop Antenna	EMCO	6502	00042960	11/05/2021	11/04/2022
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2021	11/04/2022
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2021	11/04/2022
	Power sensor	Anritsu	MX248XD		11/05/2021	11/04/2022
		V				

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Test Results and Measurement Data

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6.1. Antenna requirement

Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi1

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

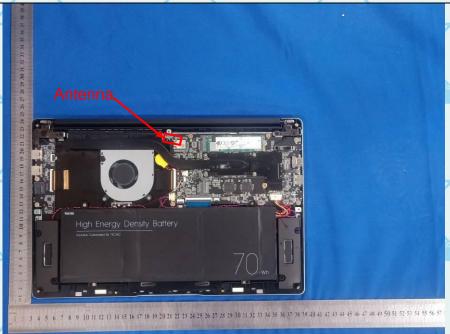
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WiFi antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is 4.44dBi.



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6.2. Conducted Emission

Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi1

6.2.1. Test Specification

2.1. Test Specification	
Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2014
Frequency Range:	150 kHz to 30 MHz
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto
Limits: WSET	Frequency range (MHz) Limit (dBuV) 0.15-0.5 Quasi-peak Average 0.5-5 56 46 5-30 60 50
	Reference Plane
Test Setup: W5	E.U.T AC power Filter AC power EMI Receiver Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network
Test Mode:	Test table height=0.8m Charging + transmitting with modulation
WSET	1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
Test Procedure:	 The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of
ation & Testing	the interface cables must be changed according to
Test Result:	PASS
100	

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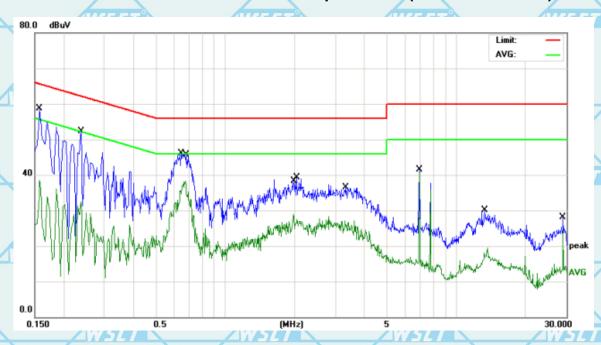
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6.2.2. Test data

Please refer to following diagram for individual

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



<	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
4	1	*	0.1580	48.37	10.41	58.78	65.56	-6.78	QP
	2		0.1580	28.10	10.41	38.51	55.56	-17.05	AVG
	3		0.2380	41.89	10.42	52.31	62.16	-9.85	QP
	4		0.6460	35.66	10.48	46.14	56.00	-9.86	QP
	5		0.6740	27.75	10.48	38.23	46.00	-7.77	AVG
K	6		1.9740	18.26	10.66	28.92	46.00	-17.08	AVG
	7		2.0420	28.59	10.66	39.25	56.00	-16.75	QP
L	8		3.3020	16.39	10.67	27.06	46.00	-18.94	AVG
	9		6.9460	30.82	10.73	41.55	60.00	-18.45	QP
	10		6.9460	29.73	10.73	40.46	50.00	-9.54	AVG
	11		13.3180	19.18	10.97	30.15	60.00	-29.85	QP
	12		28.9700	14.15	10.96	25.11	50.00	-24.89	AVG

Notes:

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- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2, Quast-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level Receiver Read level + LISN Factor + Cable Loss
 - 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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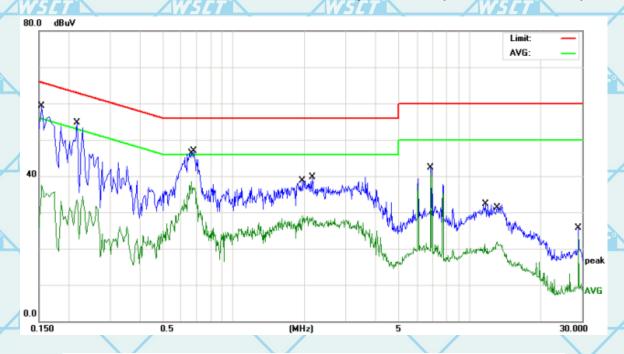


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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



	No.	Mk.	Freq.	Level	Factor	Measure- ment	Limit	Over		/
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	1
	1	*	0.1539	48.93	10.41	59.34	65.78	-6.44	QP	
(2		0.1539	27.06	10.41	37.47	55.78	-18.31	AVG	
	3		0.2180	44.22	10.41	54.63	62.89	-8.26	QP	
C	4		0.6620	27.94	10.48	38.42	46.00	-7.58	AVG	
	5		0.6820	36.50	10.48	46.98	56.00	-9.02	QP	
	6		1.9660	18.36	10.65	29.01	46.00	-16.99	AVG	•
	7		2.1619	29.03	10.66	39.69	56.00	-16.31	QP	4
	8		6.8660	31.48	10.73	42.21	60.00	-17.79	QP	1
,	9		6.8660	30.23	10.73	40.96	50.00	-9.04	AVG	
	10		11.7299	21.49	10.88	32.37	60.00	-27.63	QP	
7	11		13.0620	10.95	10.96	21.91	50.00	-28.09	AVG	
<u>L</u>	12		28.9700	12.23	10.96	23.19	50.00	-26.81	AVG	
										-

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss
- 4.If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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6.2.3. Maximum Conducted (Average) Output Power

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6.2.4. Test Specification

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Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report.
Test Result:	PASS

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Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi1

6.2.5. Test Data

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,	20MHz(802.11b/g/n/ax)					
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
0	Lowest	16.08	30.00	PASS		
	Middle	16.00	30.00	PASS		
	Highest	15.89	30.00	PASS		

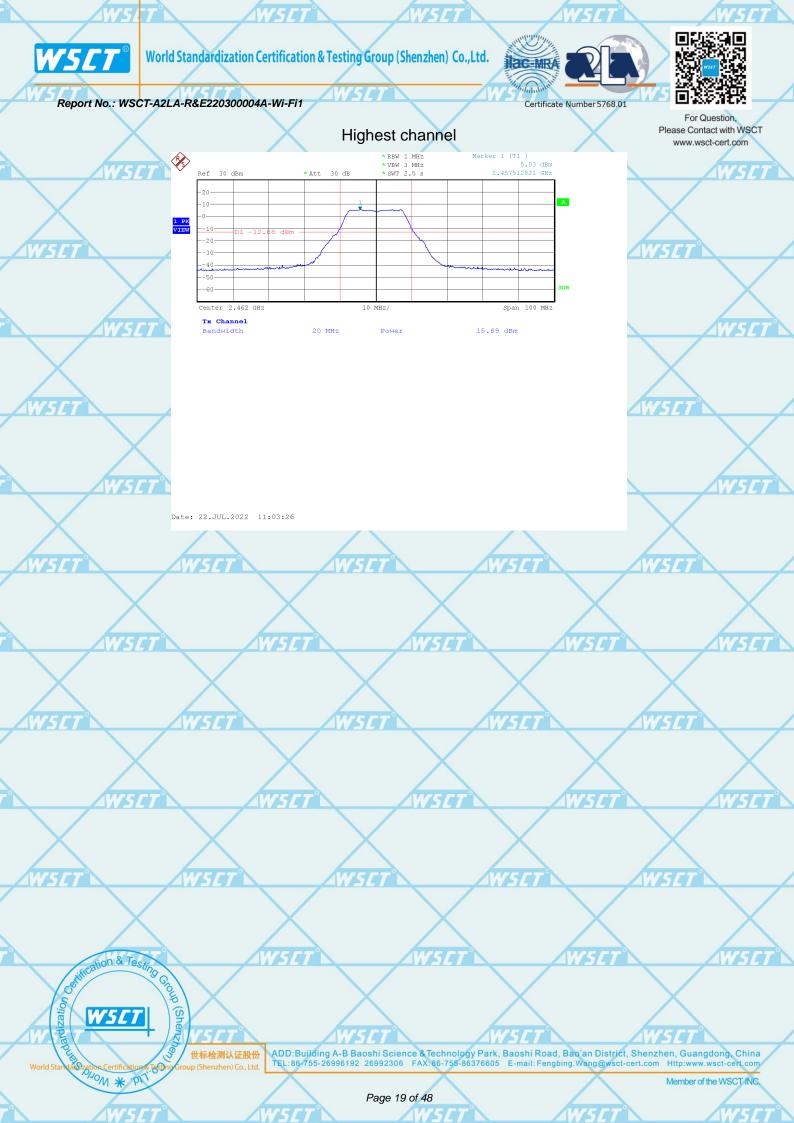
7	40MHz(802.11n/ax)			
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
è	Lowest	14.91577	30.00	PASS577
	Middle	14.70	30.00	PASS
	Highest	14.58	30.00	PASS

WSET	WSET	WSET	WSET	WSET	
		$\langle \hspace{0.1cm} \rangle$			X
W5				SET N	WSET [®]
WSET	WSET WS	WSET WS	WSET	WSET [®]	WSET
WSET	WSET	WSET	WSET	WSET	WEG
aion & Te				557	WSET

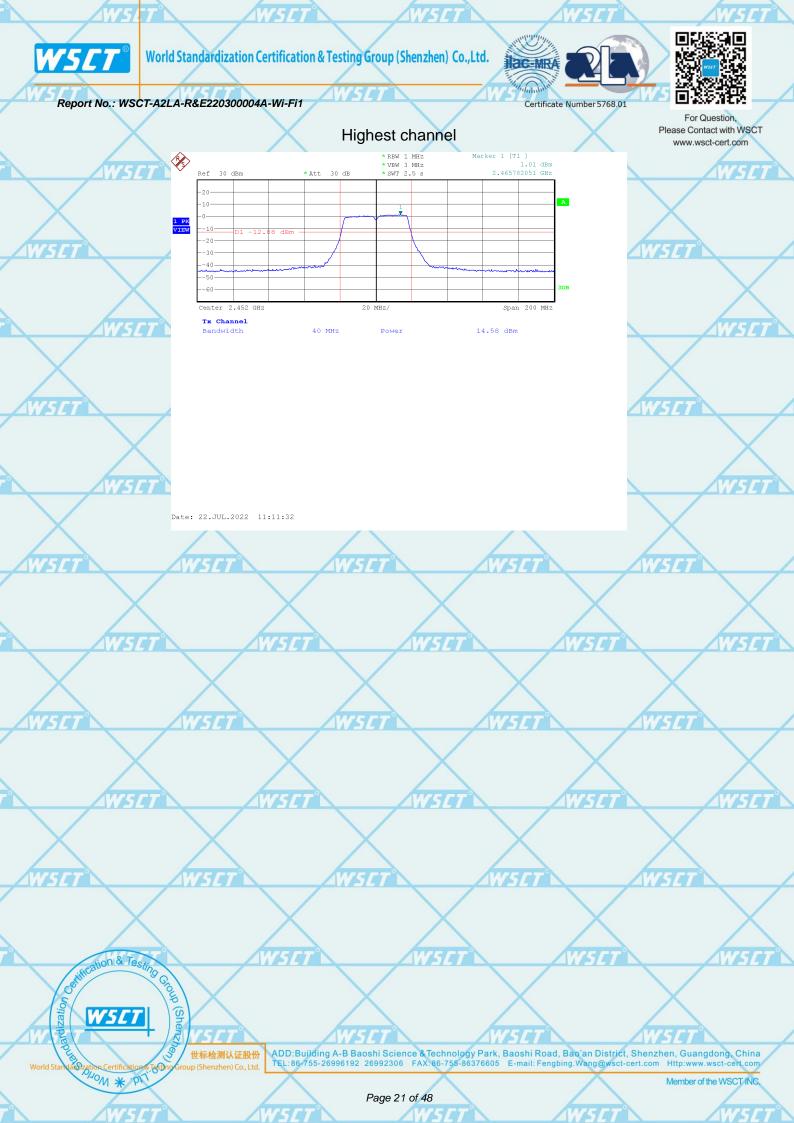
Page 17 of 48

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6.3. Emission Bandwidth

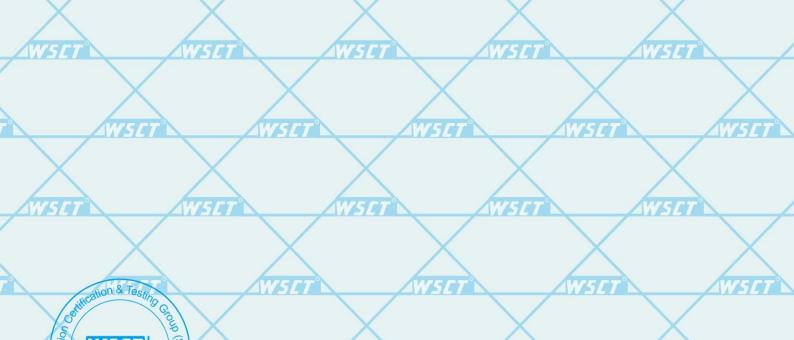
6.3.1. Test Specification

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Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074
Limit:	>500kHz
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation W5///
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS









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6.3.2. Test data(worst)

	WST	WSTT	14/5/4/
	Test channel	6dB Emission Ba	ndwidth (MHz)
	rest chamilei	20MHz(802.11b/g/n/ax)	40MHz(802.11n/ax)
7	Lowest	10.128	75ET 37.821 WSET
	Middle	10.128	37.949
	Highest	10.128	37.949
	Limit:	W5/>500k	(Hz WSET
	Test Result:	PAS	S

LIPIA	LOWCSt	10.120		07.021	
	Middle	10.128		37.949	
	Highest	10.128		37.949	
	Limit:	WSET WSE	>500KHz	WSCT	WSET
	Test Result:		PASS		
	Test plots as follows:				•
WSCT	WSET	WSET	WSET	WSET	
	WSET	WSET WSE	7°	WSET	WSET [®]
WSET	WSET	WSET	WSET	WSET	/
	\times	\times		\times	\times
	WSET	AWSET WSE		WSET	W5ET
X	X	X	X	X	
WSCI	WSET	WSET	WSET	WSET	
7112131					
	X	X		X	X
	WSET	WSET		WSET	WSCT
X	X	X	X	X	
WSET	WSET	WSET	WSET	WSET	
		X			
	ation & Testion	WSET WSE		WSET	WSET
S. T.	WSET STORY				
ration	W5C7 9				
W je v	VSCT	WSCT	WSET	WSET	

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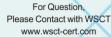


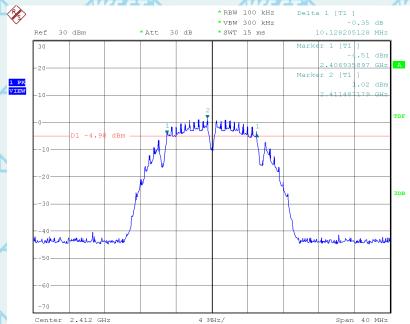




20MHz(802.11b/g/n/ax)-worst

Lowest channel





Date: 22.JUL.2022 11:24:33

Middle channel



4 MHz/

Date: 22.JUL.2022 11:26:35

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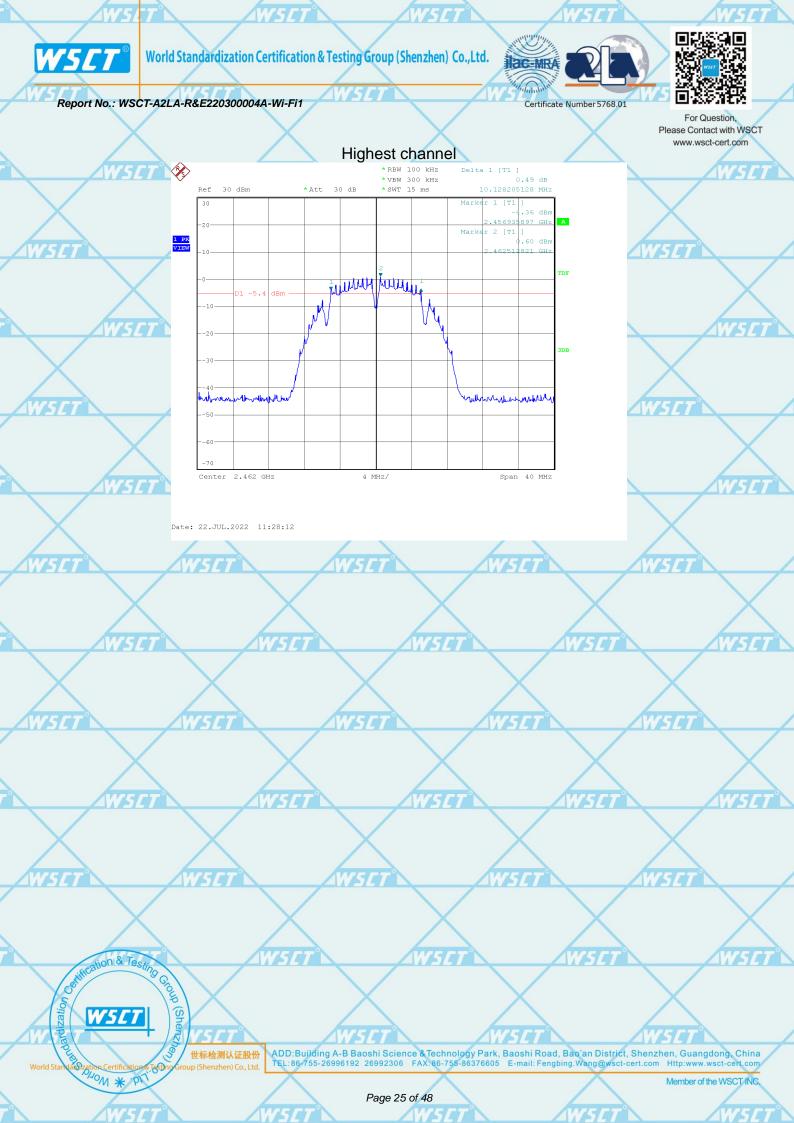
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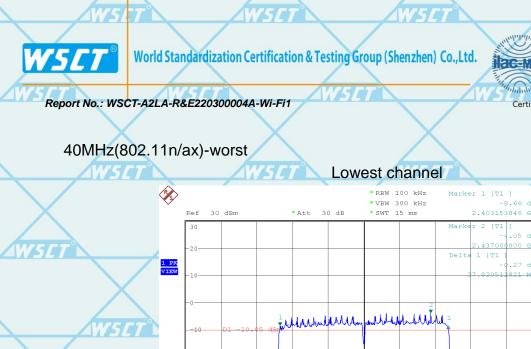
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Center 2.437 GHz

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Span 40 MHz

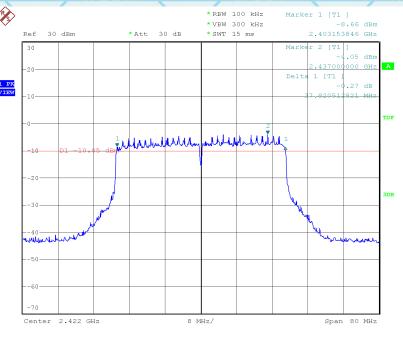




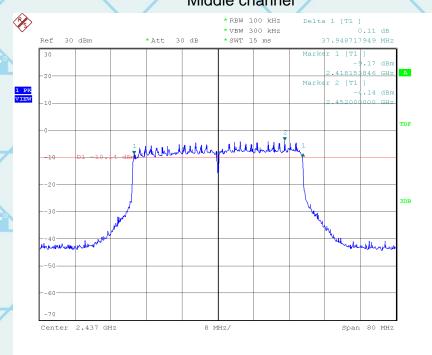


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Middle channel



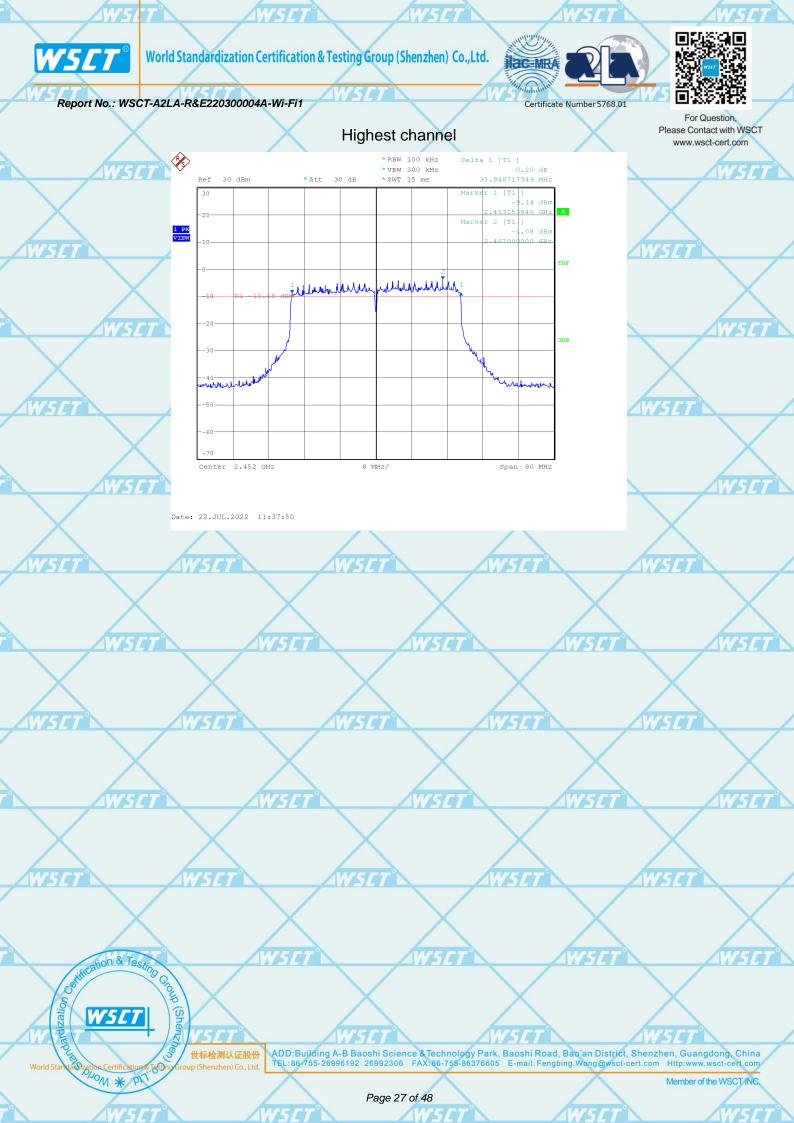
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Date: 22.JUL.2022 11:32:47







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6.4. Power Spectral Density

6.4.1. Test Specification

analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100				
Test Setup: Test Mode: Transmitting mode with modulation 1. The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectru analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the spectrum analyzer set at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimulation of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.	Test Requirement:	FCC Part15 C Section 1	15.247 (e)	X
than 8dBm in any 3kHz band at any time interval continuous transmission. Test Setup: Test Mode: Transmitting mode with modulation 1. The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectru analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the spectrum to at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimulation of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.	Test Method:	KDB 558074	WSET	WSET
Test Mode: Transmitting mode with modulation 1. The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectruanalyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the spectrum at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimulation of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.	Limit:	than 8dBm in any 3kF	Iz band at any tir	
Test Mode: Transmitting mode with modulation 1. The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectru analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the spit to at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimulof 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.	Test Setup:		FUT	
1. The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the spectrum analyzer resolution bandwidth VBW ≥ 3 x RBW set the spectrum analyzer resolution bandwidth vBW ≥ 3 x RBW set the spectrum analyzer resolution bandwidth vBW ≥ 3 x RBW set the spectrum analyzer resolution bandwidth vBW ≥ 3 x RBW set the spectrum analyzer resolution bandwidth vBW ≥ 3 x RBW set the spectrum analyzer resolution bandwidth vBW ≥ 3 x RBW set the		Spectrum Analyzer	EUI	WSET
Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectru analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the spectrum analyzer to at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimu of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.	Test Mode:	Transmitting mode with	modulation	
5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimulation of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.	Test Procedure:	 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span 		
Test Result: PASS		5. Detector = RMS, Swe 6. Employ trace averagi of 100 traces. Use the determine the maxim 6. Measure and record to	eep time = auto coung (RMS) mode ov ne peak marker fun num power level.	ver a minimum ction to
	Test Result:	PASS		

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6.4.2. Test data(worst)

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		AVG Power Spectral	WSET	
	Test channel	20MHz(802.11b/g/n/ax)	40MHz(802.11n/ax)	
	Lowest	-14.14	-10.04	
∠W5LT	Middle	-13.68	-9.47 WSG	
	Highest	-14.10	-10.51	\times
	Limit:	8dBm	n/3kHz	August and
	Test Result:	PASS		
Tes	t plots as follows:	WSET	WSGT WSG	
	\times	SET WSET	WSCT	WSET
WSET	WSET	WSET	W5ET W5E	
	\times	SET WSCT	WSET	WSET
WSET	WSET	WSET	WSET	
	WSET W	SET WSET	WSET	WSET
WSUT	WSET	WSET	WSET WSE	
	\times	SET WSET	WSET	WSET

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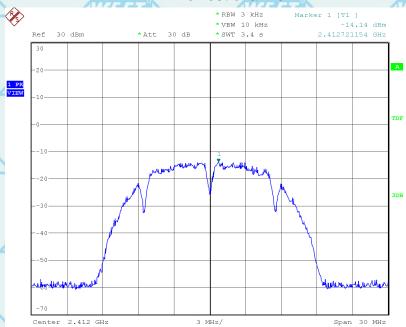




20MHz(802.11b/g/n/ax)-worst

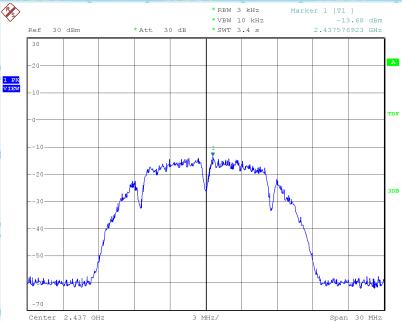
Lowest channel





Date: 22.JUL.2022 11:42:12

Middle channel



Date: 22.JUL.2022 11:43:24

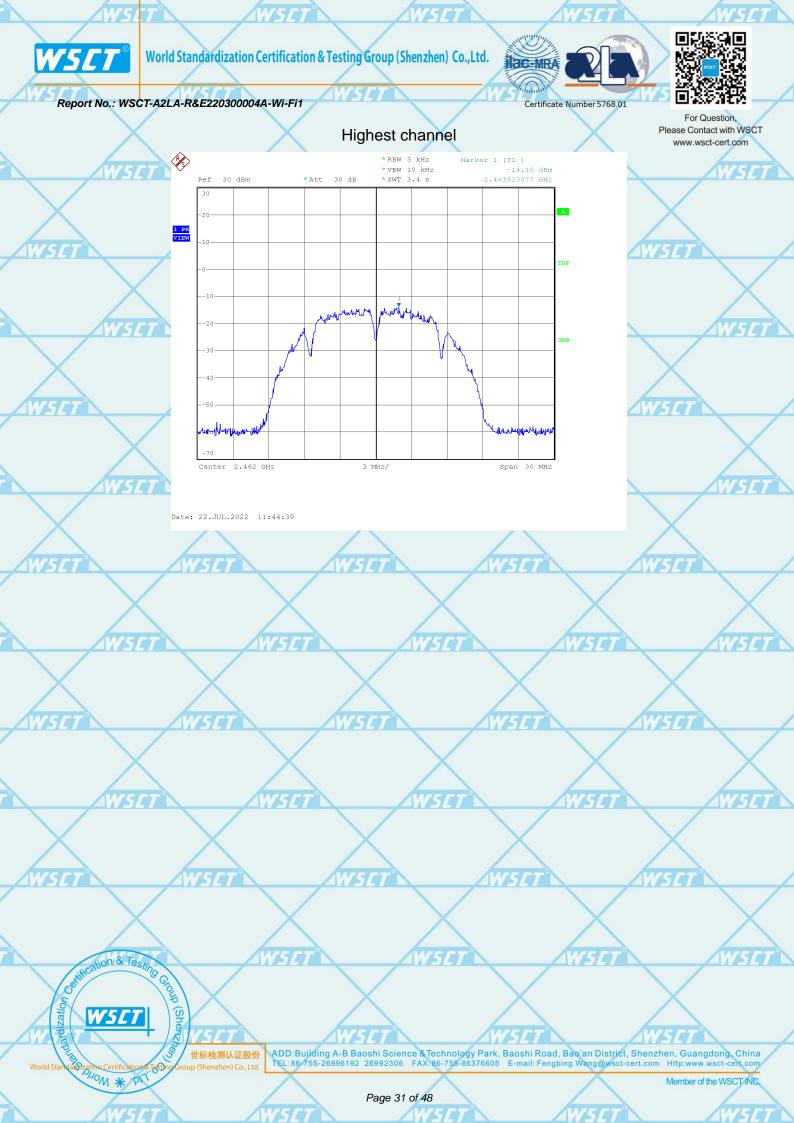
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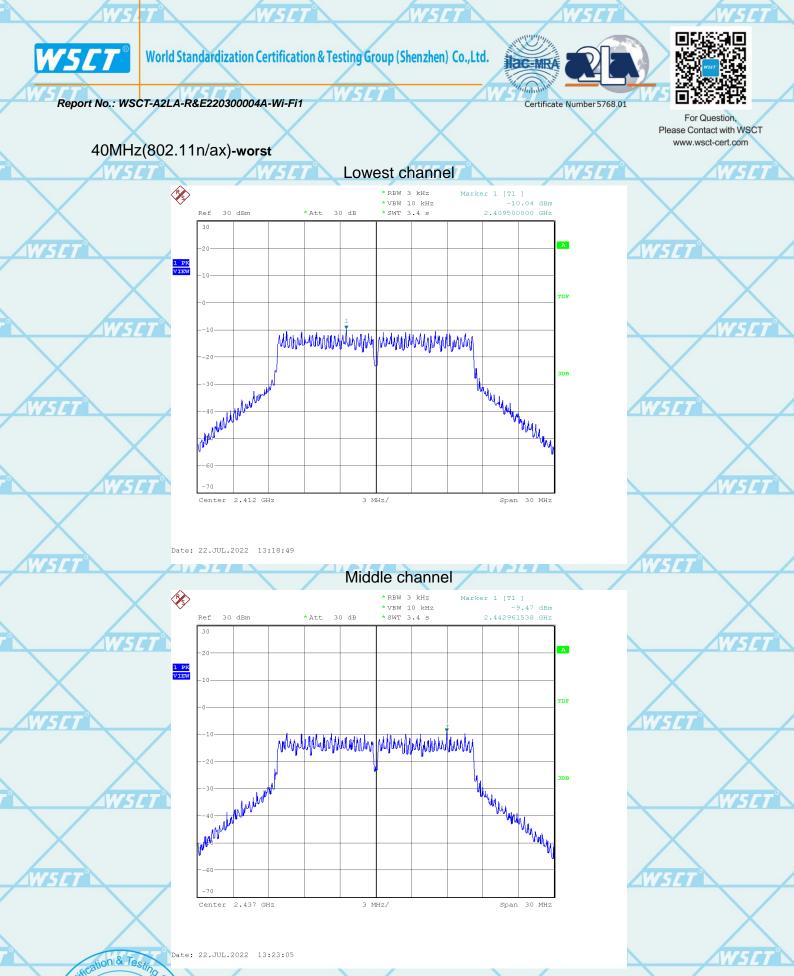
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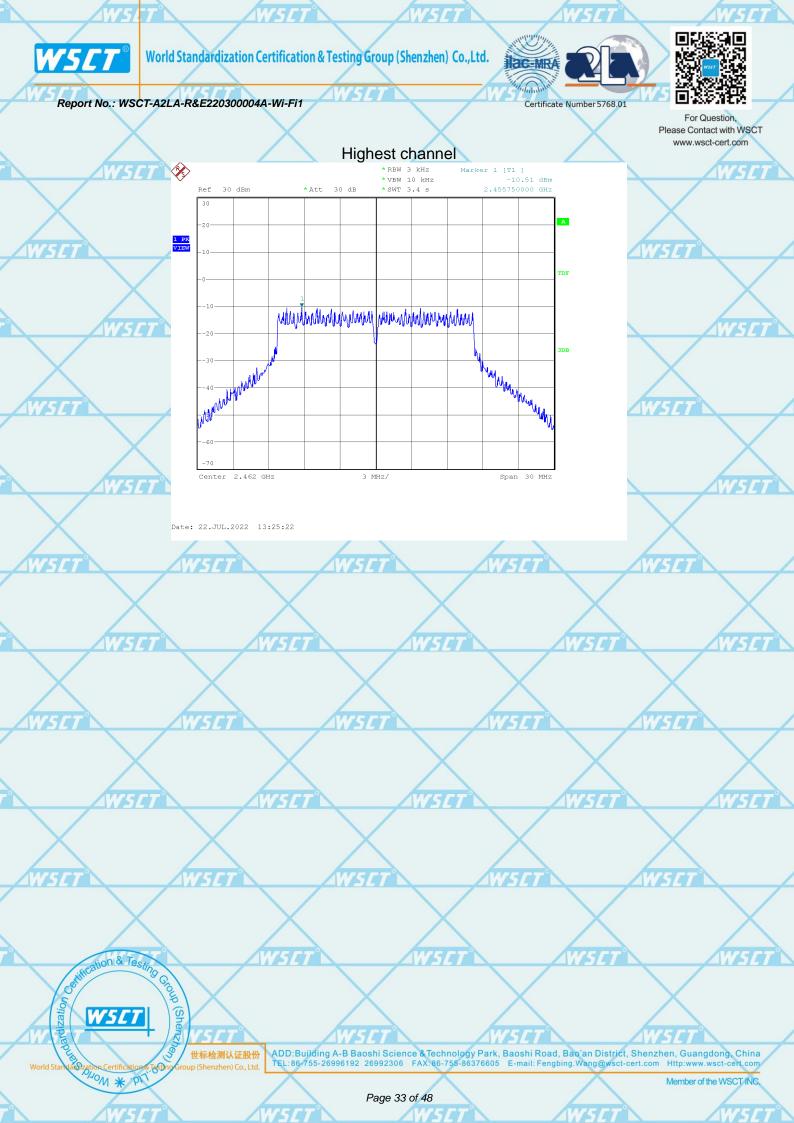




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6.5. Conducted Band Edge and Spurious Emission Measurement Measure

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 W5
Limit: W5	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	Spectrum Analysis EUT
Test Mode:	Transmitting mode with modulation
WSET	The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
Test Procedure: WSLT WS	 Set to the maximum power setting and enable the EUT transmit continuously. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS PASS
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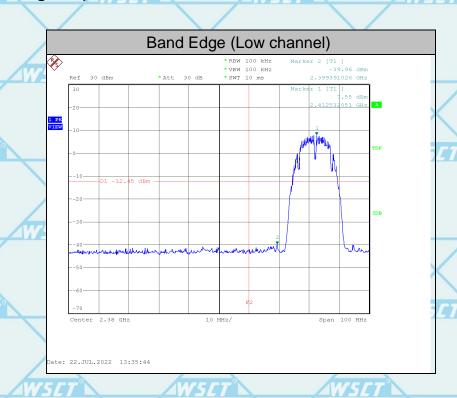
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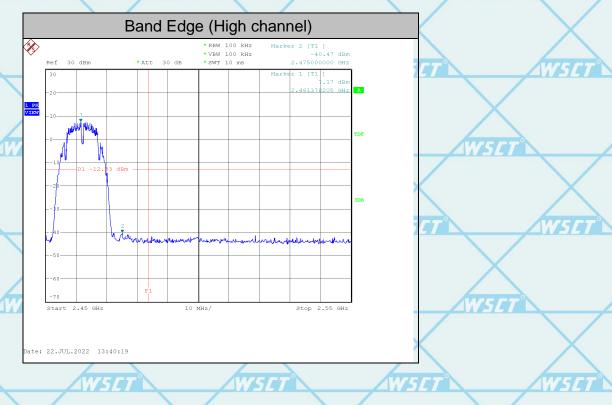
6.5.2. Test Data 20MHz(802.11b/g/n/ax)-worst

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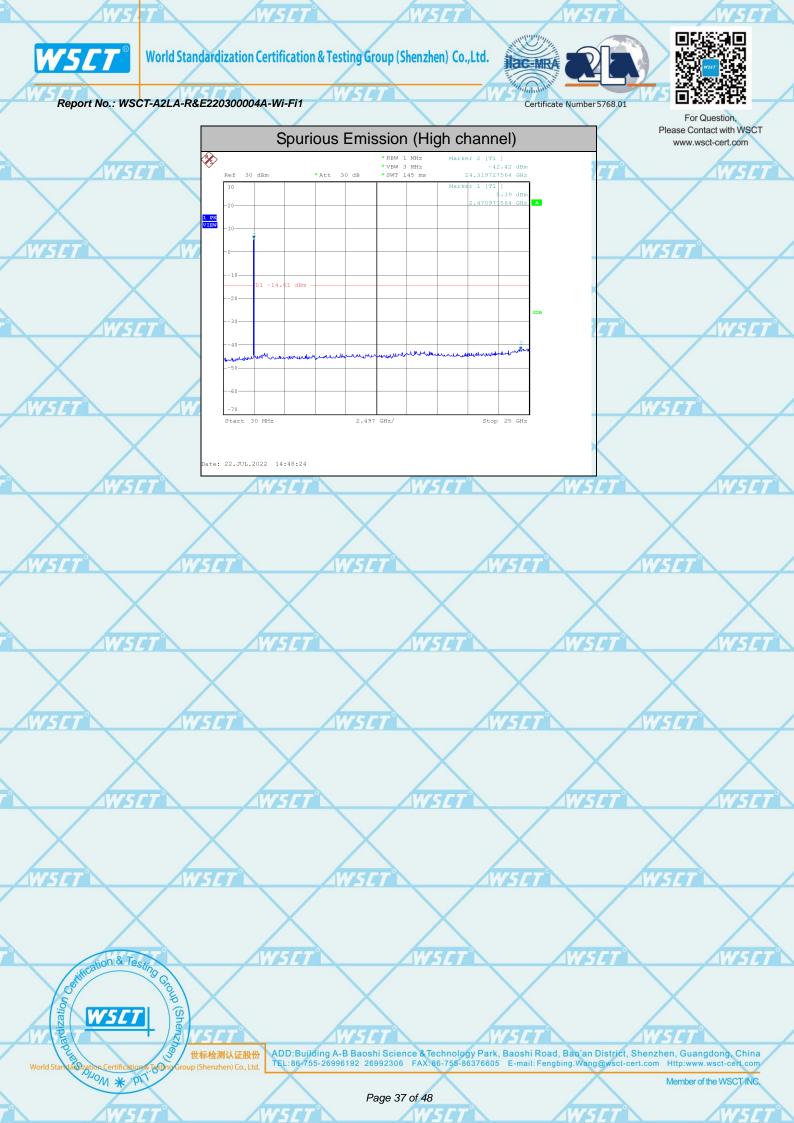
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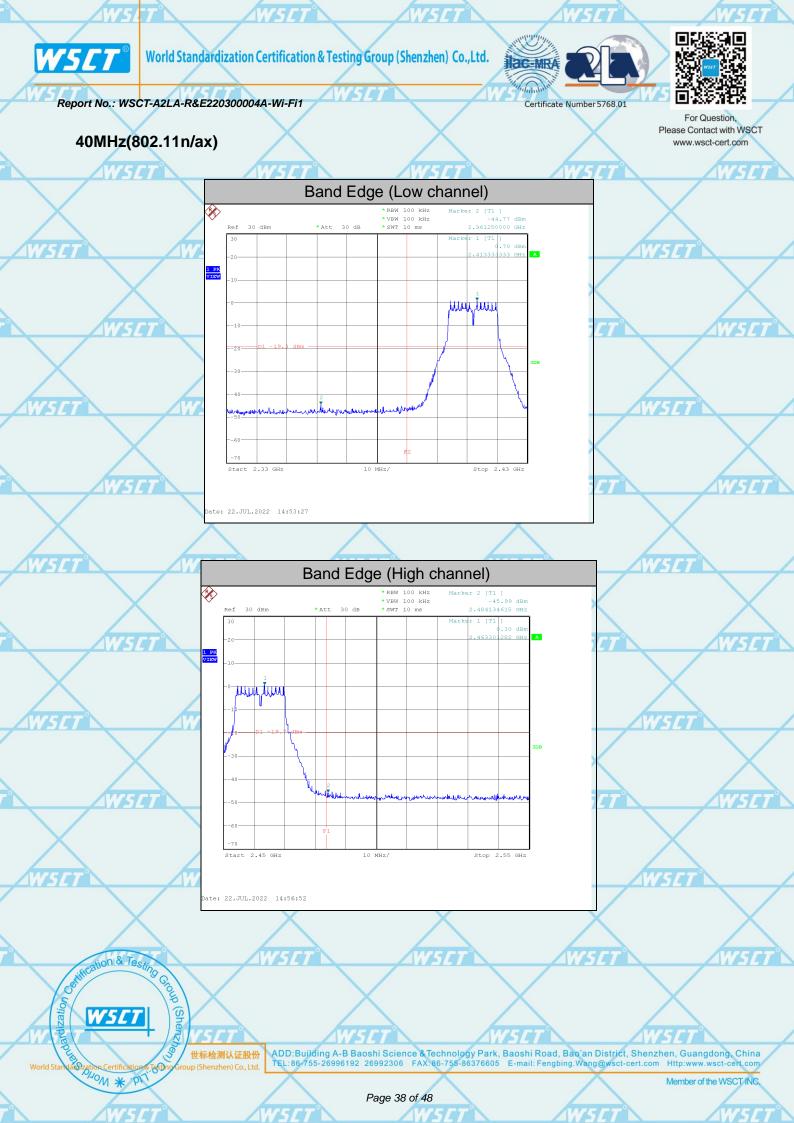
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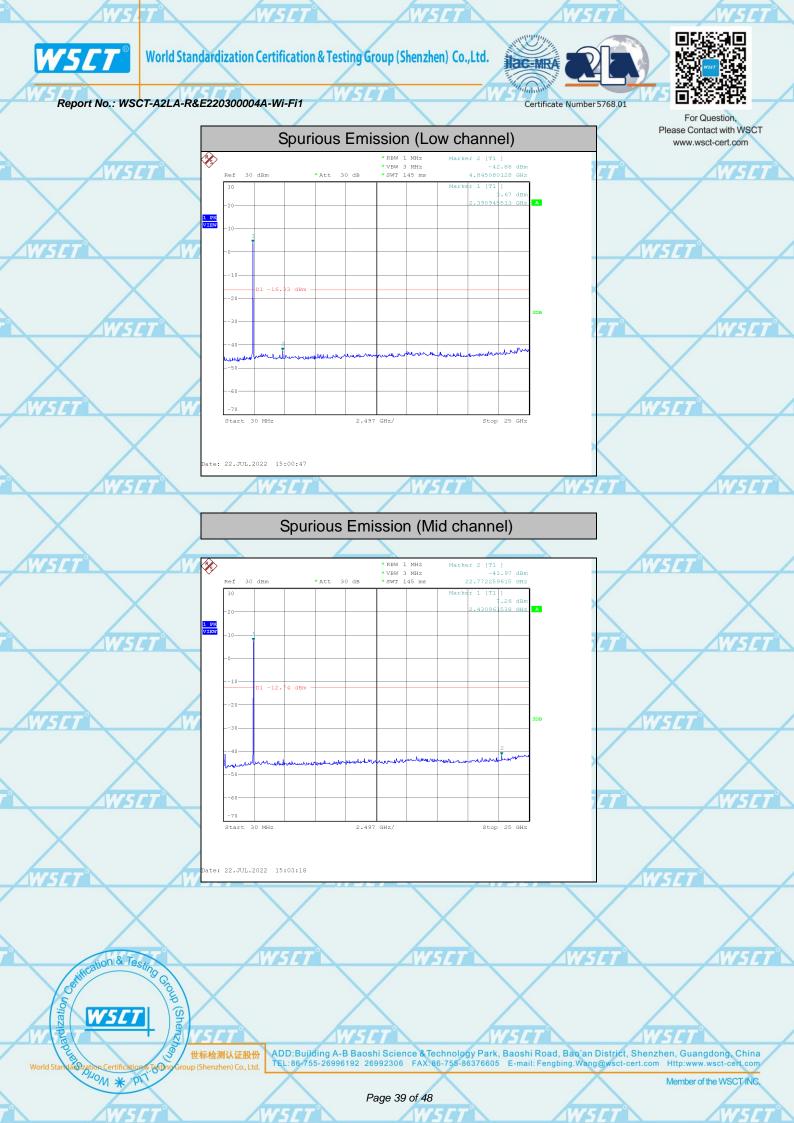


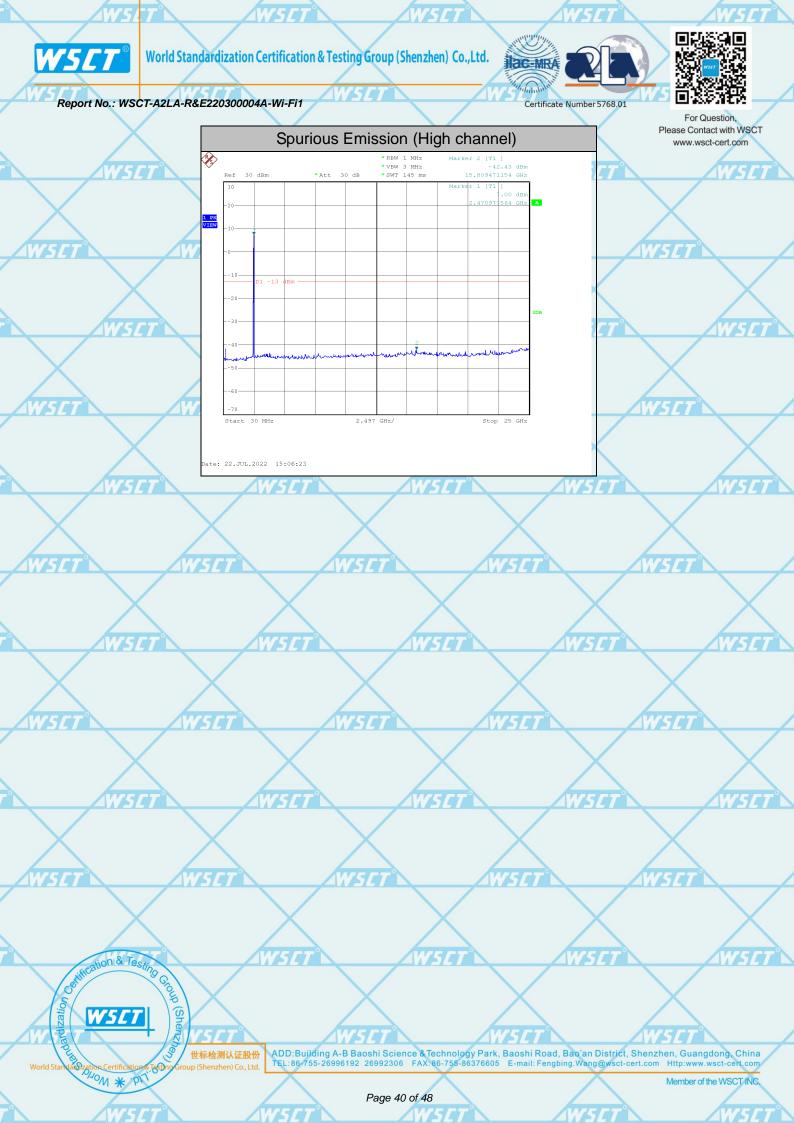
















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6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification

Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi1

.6.1. Test Specification						
Test Requirement:	FCC Part15 C	Section	15.209			
Test Method:	ANSI C63.10:	2014	ZW5ET		W5	<i>[7</i>
Frequency Range:	9 kHz to 25 G	iHz				
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal & \	/ertical		/W5		-/
Operation mode:	Transmitting r	node with	modulati	on		
WSCT	Frequency 9kHz- 150kHz	Detector Quasi-peak	RBW 200Hz	VBW 1kHz	Remark Quasi-peak V	TO A
Receiver Setup:		Quasi-peak	9kHz	30kHz	Quasi-peak V	
	30MHz-1GHz	Quasi-peak Peak	100KHz 1MHz	300KHz 3MHz	Quasi-peak V Peak Valu	ıe
AWSET AWS	7.BOVO TOTIZ	Peak	1MHz	10Hz	Average Va	lue
X	Frequenc	:y	Field Stre (microvolts/	-	Measureme Distance (me	4
WSET		0.009-0.490 2400/F(KHz			300	
	0.490-1.705 1.705-30		24000/F(I	NHZ)	30	5.7
	30-88	X	100		3	
	88-216		150		3	
Limit: W5	216-960	Auger	200	AUL.	3	
	Above 96	0	500		3	
				<u> </u>		
WSCT	Frequency		Strength olts/meter)	Measurei Distani (meter	ce Detec	ctor
	Above 1GHz		500 5000	3	Avera	
August Au	For radiated e	emissions	below 30	MHz		
AWSET AWS		ance = 3m			Computer	7
	<u> </u>	\rightarrow		Pre -Ar	mplifier	
Test setup: W5/7	EUT					ET 1
\times	0.8m	Turn table		Re	ceiver	
ation & Testino Co	9	Ground P	lane			
() () () () () ()	30MHz to 1GI	Hz				/

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Above 1GHz

Coaxial cable (1m)+

Coaxial cable (1m)

 For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be

Test Procedure:

on & Test

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restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.







Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi1

Certificate Number 5768 0 Contact with WSCT 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for $f \square 1$ GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the

transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

PASS

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Test results:

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Report No.: WSCT-A2LA-R&E220300004A-Wi-Fi1 Ce

Certificate Number 5768.01

6.6.2. Test Data(worst)

Please refer to following diagram for individual Below 1GHz



)	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE R	
V			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
	1	*	31.3992	26.11	4.26	30.37	40.00	-9.63	QP	
	2	1	54.6429	27.09	-5.57	21.52	40.00	-18.48	QP	1
	3		112.9196	25.54	-2.15	23.39	43.50	-20.11	QP	4
\	4		182.5592	40.81	-7.07	33.74	43.50	-9.76	QP	
/	45	7	355.4273	30.33	-1.51	28.82	46.00	-17.18	QP	
V	6	-	975.7529	22.13	6.89	29.02	54.00	-24.98	QP	

MOM * PI

 \times

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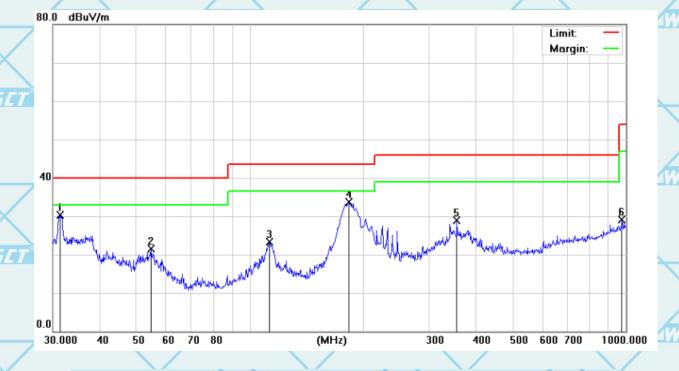


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Vertical:

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	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	4
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
,	1	*	31.3992	26.11	4.26	30.37	40.00	-9.63	QP
V	2	All	54.6429	27.09	-5.57	21.52	40.00	-18.48	QP
	3	1	12.9196	25.54	-2.15	23.39	43.50	-20.11	QP
	4	1	83.8440	40.88	-7.09	33.79	43.50	-9.71	QP
	5	3	355.4273	30.33	-1.51	28.82	46.00	-17.18	QP
1	6	9	75.7529	22.13	6.89	29.02	54.00	-24.98	QP

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.

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Above 1GHz

20MHz(802.11b/g/n/ax)

1	Eroa	Low channel: 2412MHz							
	Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)	
	(IVIIIZ)	H/V	PK	AV	PK	AV	PK	AV	
	4824	V	60.06	39.36	74	54	-13.94	-14.64	
Ĺ	7236	W5V.T	59.84	40.40	74	54	-14.16	-13.60	
	4824	Η	58.62	39.38	74	54	-15.38	-14.62	
	7236	Η	58.45	39.45	74	54	-15.55	-14.55	

Eroa		Middle channel: 2437MHz							
Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)		
(IVITZ)	H/V	PK	AV	PK	AV	PK	AV		
4874	V	58.85	39.18	74	54	-15.15	-14.82		
7311	V-V-	59.09	40.94	74	54	-14.91	-13.06		
4874		59.23	39.83	74	54	-14.77	-14.17		
7311	Τ	58.41	39.41	74	54	-15.59	-14.59		

	Frog		High channel: 2462MHz								
-	Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)			
	(IVI□Z)	H/V	PK	AV	PK	AV	PK	AV			
	4924	V	60.69	40.37	74	54	-13.31	-13.63			
	7386	V	59.82	40.98	74	54	-14.18	-13.02			
	4924	WSH7	59.10	40.28	74	54	-14.90	-13.72			
	7386	Η	59.66	40.66	74	54	-14.34	-13.34			

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.

 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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40MHz(802.11n/ax)

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	Eroa		Low channel: 2412MHz								
_	Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m	(dBuV/m)	Over(dB)				
	(IVITZ)	H/V	PK	AV	PK	AV	PK	AV			
	4824	V	58.62	40.27	74	54	-15.38	-13.73			
	7236	V	58.44	39.19	74	54	-15.56	-14.81			
0	4824	WSH7	59.26	39.51	74	54	-14.74	-14.49			
	7236	Н	58.30	39.30	74	54	-15.70	-14.70			

	Eroa		Middle channel: 2437MHz								
	Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)			
	(IVIIIZ)	H/V	PK	AV	PK	AV	PK	AV			
	4874	V	59.39	39.20	74	54	-14.61	-14.80			
	7311	>	59.66	40.52	74	54	-14.34	-13.48			
1	4874		58.96	40.64	74	54	-15.04	-13.36			
	7311		58.87	39.87	74	54	-15.13	-14.13			

	Frog	High channel: 2462MHz								
	Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)		
+	(IVITIZ)	H/V	PK	AV	PK	AV	PK	AV		
	4924	V	58.18	40.72	74	54	-15.82	-13.28		
	7386	V	59.49	39.91	74	54	-14.51	-14.09		
	4924	/ H	58.87	40.67	74	54	-15.13	-13.33		
	7386	WSH7 i	58.24	39.24	74	54	-15.76	-14.76		

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Restricted Bands Requirements

Test result for 802.11b Mode (the worst case)

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	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector	×
1	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V		
7		WSET"		Low Cha	nnel	AW5E	7°\	AW.	7
	2390	62.16	-8.73	53.43	74	20.57	Н	PK	
	2390	54.96	-8.73	46.23	54	7.77	н	AV	
	2390	63.59	-8.73	54.86	745	19.14	VWS	PK	
	2390	56.76	-8.73	48.03	54	5.97	V	AV	
		X		High Cha	nnel	X			X
	2483.5	64.43	-8.17	56.26	74	17.74	Н	PK	
5	2483.5	53.17	-8.17	45.00	54	9.00		AV	1
	2483.5	63.11	-8.17	54.94	74	19.06	V	PK	
	2483.5	54.02	-8.17	45.85	54	8.15	V	AV	

					477261
X	*	****END OF REP	ORT****	X	
WSET	WSET	WSET	WSET	WSET*	X
W5	ET WS	TT WS	CT W.	ET	AWSET
WSET	WSCT	WSLT	WSET	WSET	
W5	ET WS	ET WS	ET W.	TITI	WSET
WSET	WSET	WSET	WSET	WSET	
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