WSET

W5 CT

WS TEST REPORT WS CO

FCC ID: 2ADYY-T1001W

W5 Product: Tablet W5 [7]

Model No.: T1001W

Trade Mark: TECNO

WSCT Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

Issued Date: 07 November 2024

WSCI

Issued for:

WSET TECNO MOBILE LIMITED

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

W5ET WSCT

Issued By:

W5 LT World Standardization Certification & Testing Group(Shenzhen) Co., Ltd.

Building A-B, Baoli' an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao' an District, Shenzhen City, Guangdong Province, China

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W5 ET WSET W5 ET

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apply to the tested sample.

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	$^{\prime}$				
W	SET WSE	WSET	WSET	WSET	
	X	X	X	X	X
_					
1	WS CT [®]	WS ET"	WSET	NS ET	W5 CT
	X	X	X		
Au.	CCT WEE		Wester	WEET	
	SET WSE	T" WSET	W5 ET	W5 ET	$\overline{}$
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ADD: Buil	ding A-B,Baoli'an Industrial Park,No.58 and 60,Tang	gtou Avenue, Shiyan Street, Bao'an District, Shenzhei	深圳巴特	示检测认证股份有限公司	* PIT-02
TEL 0000	-755-26996192 26996053 26996144 FAX: 008	6-755-86376605 E-mail: fengbing.wang@wsct-c	ert.com Http://www.wsct-cert.com World Sta		

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



Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

Test Certification

Product: Tablet

Model No.: T1001W

Additional // Model:

TECNO

Applicant: TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN

MEI STREET FOTAN NT HONGKONG

TECNO MOBILE LIMITED Manufacturer:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN

MEI STREET FOTAN NT HONGKONG

Date of Test: 22 October 2024 to 07 November 2024

Applicable FCC CFR Title 47 FCC Part 15 Subpart E Standards:

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, 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:

(Chen Xu)

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Approved By:

(Li Huaibi)

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Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

2 **EUT Description**

	WS	WAY WAY	47/
١	Product:	Tablet	
I	Model No.:	T1001W	
M Ti O A A	Trade Mark:	TECNO WSCT WSCT	-
Model No.: T1001W Trade Mark: TECNO Band 1: 5180-5240 MHz Band 2: 5260-5320 MHz Band 3: 5500-5700 MHz Band 4: 5745-5825 MHz Modulation type: IEEE 802.11a/n/ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) Antenna Type: PIFA Antenna Antenna Gain 1.05dBi Adapter1: FC447U Input: 100-240V~50/60Hz 0.5A MAX Output: 5.0V3.0A 15.0W 9.0V2.22A 19.98W V 12.0V1.67A 20.04W5 T Rechargeable Li-ion Battery: T1001 Nominal Voltage: 3.85V Limited Charge Voltage: 4.4V		CT	
I	Modulation type:	(BPSK/QPSK/16QAM/64QAM/256QAM)	
4	Antenna Type:	PIFA Antenna	
4	Antenna Gain	1.05dBi	
	On a matin or Malta ana	Input: 100-240V~50/60Hz 0.5A MAX Output: 5.0V3.0A 15.0W 9.0V2.22A 19.98W	<u>CT</u>
	Operating Voltage:	Nominal Voltage: 3.85V=== Limited Charge Voltage: 4.4V=== Rated Capacity: 7000mAh	CT
	Remark:	N/A.	

Note: 1. N/A stands for no applicable.

2. Antenna gain provided by the customer.

Configuration differences

	0 0 1 11 19 11 1				
	Configuration	Model	Camera Adapter		LCD
	WSCI	T1001W	SA1036G5M /	W5_T1001	HJR101059D
-		1100100	SE1035G13M	(Ganfeng)	HJK 101059D
	2	T1001W	AC55925 /	T1001	SAT101AT45IM0712-Q0054
1			AM5A926	(Gaoyuan)	

Note: The prototypes of both configurations have been tested, and the "Configuration1" has the worst test result, which is the main test model reported

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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 $\mathbf{95}$ %.

WS ET

2		X		X
	No.	Item	Uncertainty	
W5	51°	Conducted Emission Test W5/	±3.2dB W5 <i>ET</i>	W5 CT
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	
WSET	4 W	All emissions, radiated(<1GHz)	±4.7dB5 [7]	WS ET
	5	All emissions, radiated(>1GHz)	±4.7dB	
	6	Temperature	±0.5°C	
W5	7	Humidity/5/7	±2% W577°	WSCT
	8	Receiver Spurious Emissions	±2.5%	
X	9	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	X
WSCT	10 W	Transmitter Unwanted Emission in	±1.3%/5/7	WS ET
		the out-of Band		
>	11	Occupied Channel Bandwidth	±2.4%	X

WSET	WSET	WSET	WSET	WSET	
		\times		X	X

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WSET W





Keep the EUT in continuous transmitting by select channel and modulations(The value of

duty cycle is 98.46%)



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3.2 TEST ENVIRONMENT AND MODE

Engineering mode:

Operating Environment:				'5 L
Temperature:		25.0 °C		
Humidity:		56 % RH		
Atmospheric Pressure:	WSET	1010 mbar	W5 CT	
Test Mode:				X
	Temperature: Humidity: Atmospheric Pressure:	Temperature: Humidity: Atmospheric Pressure:	Temperature: 25.0 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar 15.00	Temperature: 25.0 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

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
4	Mode 3	802.11n40
	Mode 4	802.11ac20
	Mode 5	802.11ac40
	Mode 6 5 CT	W5_CT 802.11ac80 W5_CT

Note:

15 C I

(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 O	F PARAMETER	S OF T	EXT SO	Access	E SET	TING	/	N5 E T		1	W5 CT
								VE LAL			<i>N-1-1-</i>
X	Test program			*#	*#3646	633#*#	*			X	
WEET	Mode		Aug a		Freque	ncy (MI	Hz)		_/w		
WSCT	iviode		aws L		NCB: 2	<u>OMHz</u>	7.4			ET \	$\overline{}$
X	802.11a	5180	5240	5260	5320	5500	5700	5745	5825		X
	802.11n	5180	5240	5260	5320	5500	5700	5745	5825		
W5 CT	802.11ac	5180	5240	5260	5320	5500	5700	5745	5825		W5 CT
\times	X		X		NCB: 4	0MHz				X	
	802.11n	5190	5230	5270	5310	5510	5670	5755	5795		
WSLT	802.11ac	5190	5230	5270	5310	5510	5670	5755	5795	ET \	
		\vee			NCB: 8	0MHz		\vee			\mathbf{X}
	802.11ac	5210	5290	5530	5610	5775					
W5 ET	W	'S C T		W	'5 C T "			V5 CT		_/	W5CT [®]
						\ \					
WSCT	WSCT	/	W5 C	7°		W5	57°		W	ET"	
		\checkmark			\checkmark			\bigvee			
	/							$/ \setminus$			
W5 ET	W	SET		W	SET		_/	W5 CT		_/	W5CT
									/		
WSCT	WSCT		W5C			W5	57°		W	ET	
	,							\wedge			
WSET	W	SET		W	SET			W5 ET		/	W5CT
			X			X			/	X	
WSCT	WSET		W5 C			W5	47		W	ET	
					7			/			

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WS C



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CONFIGURATION OF SYSTEM UNDER TEST

WSET WSET WSET WSET WSET AC Mains USB Cable EUT WSET WSET WSET

WS CI

(EUT: Tablet)

3.4 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	WSCT	FC447U	WSET	1
2	Router	ASUS	GT-AXE11000	M6LAJF201230	1/

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 <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) The adapter supply by the applicant.

WSET WSET WSET WSET WSET WSET

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WS CT

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WSCT

WSET

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AWS CT

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WSCT V





W5 CT



Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

/SCT°	W5CT
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C I		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
<u> </u>	115 407(2)	Maximum Conducted Output Power	PASS	Complies
E1	15.407(a)	Power Spectral Density	PASS	Complies
	15.407(b)	Unwanted Emissions	PASS	Complies
	15.207 <i>5 ET</i>	AC Conducted Emission W5 [7]	PASS W5	Complies
<	15.407(g)	Frequency Stability	PASS	Complies
E1	15.407(c) W5C	Automatically Discontinue Transmission	PASS	Complies
	15.203 & 15.407(a)	Antenna Requirement		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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W5 C1





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5 MEASUREMENT INSTRUMENTS

	WSCT	WSCT	WSCT	V	V5 CT	W5	
	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
7	Test softwares	- W	C/EZ-EMC	CON-03A	-/WS	LT°-	
	Test software		MTS8310	-	V-	-	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025	
_	W5 LISN	W-AFJ	LS16 ⁵ [7	16010222119	11/05/2024	11/04/2025	Ci
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025	
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2024	11/04/2025	
	Coaxial cable	Megalon	LMR400	N/A	11/05/2024	11/04/2025	/
	GPIB cable	Megalon	GPIB	N/A	11/05/2024	11/04/2025	
/	Spectrum Analyzer	R&S	FSU ⁵	100114	11/05/2024	11/04/2025	C)
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2024	11/04/2025	
	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2024	11/04/2025	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
	9*6*6 Anechoic	X	X		11/05/2024	11/04/2025	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	- /	11/05/2024	11/04/2025	<u> </u>
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2024	11/04/2025	
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2024	11/04/2025	
7	System-Controller	ccs	CT N/A	W N/A7	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	
7	RF cable	Murata	MXHQ87WA300 0		11/05/2024	11/04/2025	<u></u>
	Loop Antenna	EMCO	6502	00042960	11/05/2024	11/04/2025	
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2024	11/04/2025	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2024	11/04/2025	
	Power sensor	Anritsu	MX248XD		11/05/2024	11/04/2025	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2024	11/04/2025	Ç

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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, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, 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

ANAB - Certificate Number: AT-3951

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB). Certification Number: AT-3951

WS	CT W	SET W	SET W	SET	WSET
\times	X	\times	\times	X	
WSET	WSET W	WSET W	WSET W	WS CT	WSET
WSET	WSCT	WSLT	WSET	WSCT	
WS	CT W	SET W	SET W	SCT	WSET
WSET	WSCT	WSET	WSET	WSCT	
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WSET	WSET	WSET	WSET	Magardization Community	Testing Group (Shenzhen)

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Test Results and Measurement Data 7

WSE

WS CI

7.1 CONDUCTED EMISSION MEASUREMENT

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

7	FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Statiuatu
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
	w 5 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:

W5 CT

(1) The tighter limit applies at the band edges.

WSCI

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

WSE

The following table is the setting of the receiver

	Receiver Parameters	Setting
	Attenuation	10 dB
1	Start Frequency	0.15 MHz
Ż	Stop Frequency W5 ET	<i>W5 L</i> 30 MHz <i>W5 LT</i>
	IF Bandwidth	9 kHz

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WS CT

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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 WS I 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.

W5 CT

7.2 DEVIATION FROM TEST STANDARD

No deviation

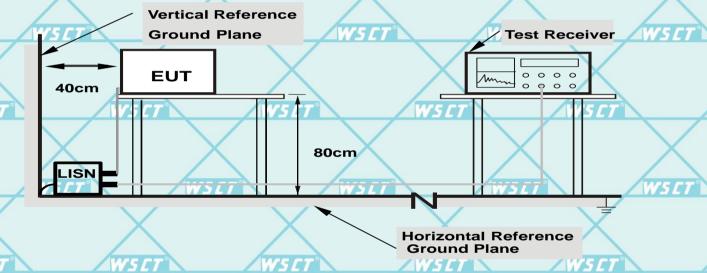
W5 CT W5 C

W5CT

W5 CT

TEST SETUP

WSCI



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

7.2.1 EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

W5 ET

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W5C

W5 CT

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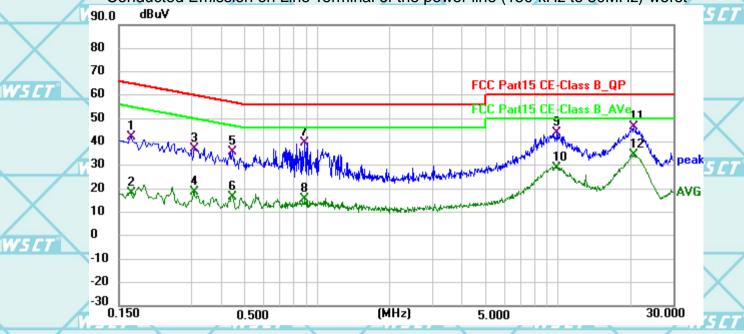


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TEST RESULTS

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

W5 E7



X	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	/
WSET	1	0.1680	21.62	20.72	42.34	65.06	-22.72	QP	7
	2	0.1680	-2.45	20.72	18.27	55.06	-36.79	AVG	
X	3	0.3075	16.32	20.63	36.95	60.04	-23.09	QP	
	4	0.3075	-1.82	20.63	18.81	50.04	-31.23	AVG	
W5CT°	5	0.4425	15.19	20.54	35.73	57.01	-21.28	QP	
	6	0.4425	-3.92	20.54	16.62	47.01	-30.39	AVG	
	7	0.8880	19.17	20.62	39.79	56.00	-16.21	QP	
WSET	8	0.8880	-4.81	20.62	15.81	46.00	-30.19	AVG	7
	9	9.8700	23.40	20.45	43.85	60.00	-16.15	QP	
X	10	9.8700	8.28	20.45	28.73	50.00	-21.27	AVG	
WSET	11 *	20.5395	26.36	20.30	46.66	60.00	-13.34	QP	
	12	20.5395	14.03	20.30	34.33	50.00	-15.67	AVG	
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Remark: All the modes have been investigated, and only worst mode is presented in this report.

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Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

IWS CT

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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) dBuV 90.0 5 C 1 80 70 FCC Part15 CE-Class B_QP 60 FCC Part15 CE Class B_AVe 50 40 30 peak 20 AVG 10 0 -10 -20

(MHz)

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
	1	0.1635	23.28	20.72	44.00	65.28	-21.28	QP	7
	2	0.1635	-3.40	20.72	17.32	55.28	-37.96	AVG	
X	3	0.2625	20.04	20.65	40.69	61.35	-20.66	QP	
	4	0.2625	-6.22	20.65	14.43	51.35	-36.92	AVG	
'5 E T °	5	0.4328	14.02	20.55	34.57	57.20	-22.63	QP	
	6	0.4328	-3.86	20.55	16.69	47.20	-30.51	AVG	
	7	0.6900	12.95	20.54	33.49	56.00	-22.51	QP	-
	8	0.6900	-3.62	20.54	16.92	46.00	-29.08	AVG	7
$\overline{}$	9	9.8745	21.34	20.45	41.79	60.00	-18.21	QP	
X	10	9.8745	6.91	20.45	27.36	50.00	-22.64	AVG	
	11 *	21.0255	26.11	20.33	46.44	60.00	-13.56	QP	
'S E T	12	21.0255	12.68	20.33	33.01	50.00	-16.99	AVG	-

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

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

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

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Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz. For multiple adapters, the report only displays the adapter with the worst data.

WSET WSET WSET

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WSET

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W5 C1



Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

7.3 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.

W5 CT

	Frequencies	Field Strength	Measurement Distance	
1	(MHz)	(micorvolts/meter)	(meters)	
	0.009~0.490	2400/F(KHz)	300	
	0.490~1.705	24000/F(KHz)	30	
V	1.705~30.0 W5 L	30 W5 LT	30 - 7	
	30~88	100	3	-
	88~216	150	3	
_	216~960	W5 ET200	W5LT 3 W5L	7
	Above 960	500	3	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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).

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	Spectrum Parameter	Setting		
\	Attenuation	SET WS CAuto WS CT		
	Start Frequency	1000 MHz		
	Stop Frequency	10th carrier harmonic		
	RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average		
	band)	1 Wil 12 / 1 Wil 12 101 1 Care, 1 Wil 12 / 11 12 101 / Worldge		

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Receiver Parameter	Setting
Attenuation	Auto W5
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
W5 Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP cation® feet

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W5 C1





W5CT"

Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

7.3.1 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:

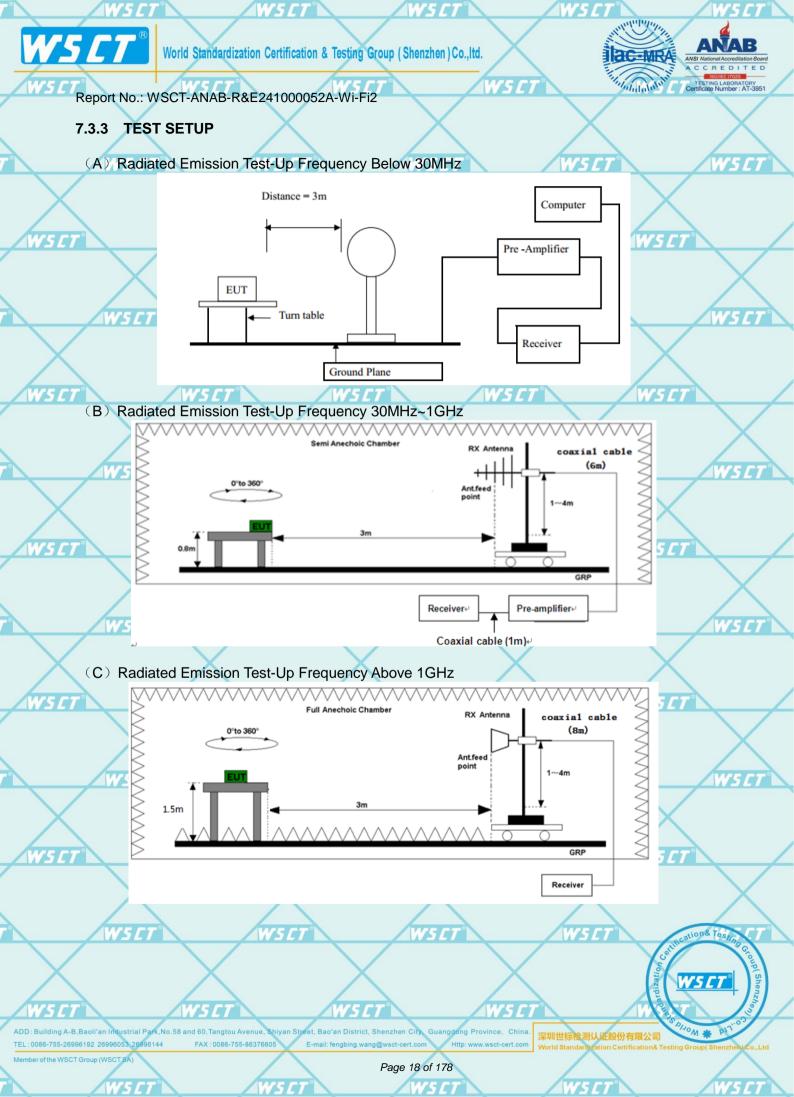
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

	orthogonal axis. The wors	st case emissions were rep	ported		
7.3		EST STANDARD	SET W	S C T	WSET
WSET	No deviation W5 ET	WSET	WSET	WSET	
	WSET	VS ET	\times	SET	WSCT
WSCT	WSET	WSET	WSCT	WSET	
		\times	SCT W	SCT	WSCT
WSET	WSET	WSET	WSCT	WSET	
	\times	\times		SET CERTIFICATION	n& Test
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7.3.4 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.

W5C7

7.3.5 RESULTS (BELOW 30 MHZ)

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
THE STATE OF THE S	_ IFI		P13-	P
			^	P

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

W5 ET	W5 CT	W5 CT	W5 CT	W	CT \
WSE			WSET	WSET	WSCT
WSET	WSET	WSLT	WSET	W.	CT.
WSE			WSET	WSET	WSCT
WSET	WSET	WSCT	WSCT		CT.
WSE			W5 ET	WSET	cationa Testa

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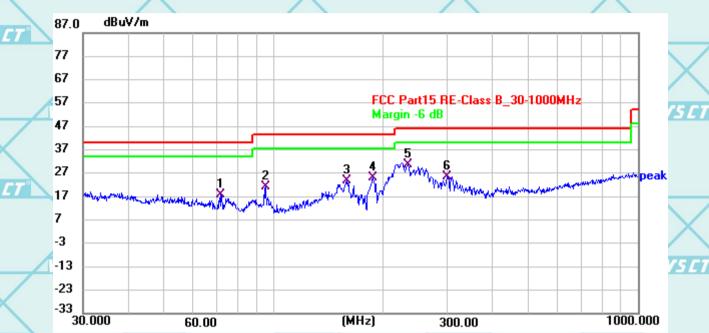
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TEST RESULTS (BETWEEN 30M - 1000 MHZ)

Please refer to following diagram for individual

Below 1GHz

Horizontal:



Frequency Reading Factor Level Limit Margin No. Detector (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 72.0843 40.41 -22.61 17.80 40.00 -22.20QP 1 W5 E 2 95.1346 45.31 -24.1121.20 43.50 -22.30QP

> 3 158.7373 43.46 -19.6323.83 43.50 -19.67QP 4 187.1778 47.73 -22.8224.91 43.50 -18.59QP 5 * QP 233.8606 53.65 -22.8730.78 46.00 -15.22

> > -20.16

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

25.43

46.00

-20.57

QP

45.59

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Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

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QΡ

Vertical: dBuV/m 87.0 77 67 FCC Part15 RE-Class B_30-1000MHz 57 Margin -6 dB 47 37 27 no Mary Maring 17 7 -3 -13

(MHz)

Reading Limit Margin Frequency Factor Level Detector No. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1! 36.1113 54.13 -19.4534.68 40.00 -5.32QP 2 47.5334 46.83 27.77 -12.23QP -19.0640.00 QP 3 55.8781 52.45 -19.8232.63 40.00 -7.374 * 71,7062 57.71 -22.5135.20 40.00 -4.80QP W5E 5 -24.1133.97 43.50 -9.53QP 95.1346 58.08

-19.65

29.43

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

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

49.08

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

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

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TEST RESULTS (ABOVE 1GHZ)

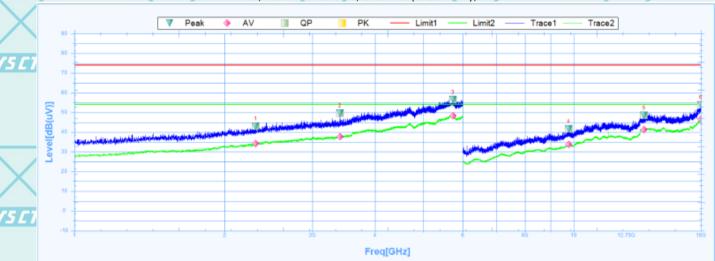
Note: 1. The spurious above 18G is noise only, do not show on the report.

2. Report and only recorded the worst-case scenario 802.11a.

11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT H

WS CI

W5 C



Susputed Data List Freq. Reading Factor Level Limit Margin Deg NO. **Polarity Verdict** [MHz] [dB(uV)] [dB] [dB(uV)] [dB] [dB] [°] 2306.2500 42.95 26.94 16.01 74 -31.05 110.9 PΚ Pass Horizontal 2306.2500 34.24 26.94 7.3 54 -19.76 110.9 Horizontal ΑV Pass 2 3401.8750 49.73 28.44 21.29 74 -24.27 104.9 PΚ Pass Horizontal 3401.8750 37.7 28.44 9.26 54 -16.3 104.9 Horizontal ΑV Pass 3 -17.43 PK 5733.7500 56.57 32.37 24.2 74 30.8 Pass Horizontal 3 5733.7500 48.43 32.37 16.06 54 -5.57 30.8 ΑV Pass Horizontal 4 9772.5000 41.69 74 PK 11.82 29.87 -32.31 331.7 Horizontal Pass 4 9772.5000 33.73 11.82 54 -20.27 331.7 21.91 ΑV Pass Horizontal 5 48.51 18.66 74 -25.49 108.2 PK 13842.0000 29.85 Horizontal Pass 5 13842.0000 41.31 18.66 22.65 54 -12.69 108.2 ΑV Pass Horizontal 6 17977.5000 53.9 23.77 30.13 74 -20.1 221.7 Horizontal PK Pass 17977.5000 46.49 23.77 22.72 54 -7.51 221.7 Horizontal ΑV Pass

	W5 CT	W5 LT	WSCT	WSET	W5CT
X	X	X	X	X	
W5 ET	WSCT	WSCT	WSCT	W5CT°	
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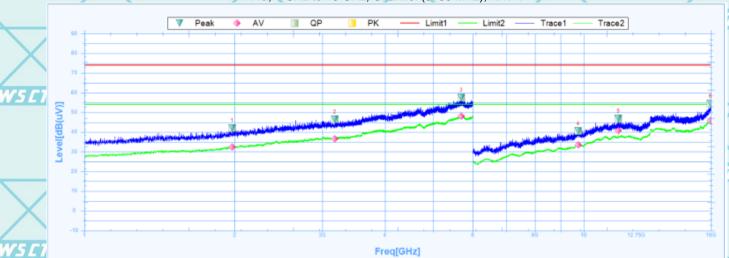




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W5CT

11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT V



	Suspu	ited Data Lis	st									-
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	1975.6250	42.15	25.79	16.36	74	-31.85	235.3	Vertical	PK	Pass	2
/	1	1975.6250	32.41	25.79	6.62	54	-21.59	235.3	Vertical	AV	Pass	
/	2	3174.3750	46.49	28.3	18.19	74	-27.51	88.2	Vertical	PK	Pass	
	2	3174.3750	36.69	28.3	8.39	54	-17.31	88.2	Vertical	AV	Pass	
	3	5688.7500	57.59	32.3	25.29	74	-16.41	235.3	Vertical	PK	Pass	
	3	5688.7500	48	32.3	15.7	54	-6	235.3	Vertical	AV	Pass	1
	4	9757.5000	40.57	11.78	28.79	74	-33.43	44.7	Vertical	PK	Pass	
	4	9757.5000	33.62	11.78	21.84	54	-20.38	44.7	Vertical	AV	Pass	-
	5	11745.0000	46.92	16.11	30.81	74	-27.08	360.1	Vertical	PK	Pass	ij
	5	11745.0000	40.74	16.11	24.63	54	-13.26	360.1	Vertical	AV	Pass	
	6	17956.5000	54.5	23.62	30.88	74	-19.5	343.6	Vertical	PK	Pass	
1	6	17956.5000	45.97	23.62	22.35	54	-8.03	343.6	Vertical	AV	Pass	

WSET	WSET	WSCT	WSET	WSCT

W5CT

W5 ET W5 C7 W5 C1 W5E7

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W5 CT

W5 CT

W5CT°

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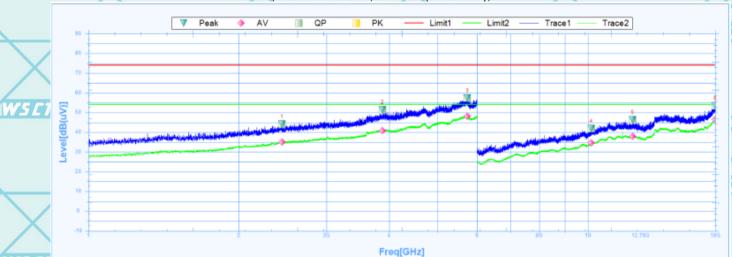




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11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT H

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W5 CI

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	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2439.3750	44.18	27.39	16.79	74	-29.82	324.8	Horizontal	PK	Pass
	1	2439.3750	35.15	27.39	7.76	54	-18.85	324.8	Horizontal	AV	Pass
	2	3880.0000	51.36	29.41	21.95	74	-22.64	-0.1	Horizontal	PK	Pass
1	2	3880.0000	40.83	29.41	11.42	54	-13.17	-0.1	Horizontal	AV	Pass
7	3	5738.1250	57.38	32.38	25	74	-16.62	88.2	Horizontal	PK	Pass
-	3	5738.1250	48.12	32.38	15.74	54	-5.88	88.2	Horizontal	AV	Pass
	4	10161.0000	41.85	12.86	28.99	74	-32.15	50.6	Horizontal	PK	Pass
	4	10161.0000	34.58	12.86	21.72	54	-19.42	50.6	Horizontal	AV	Pass
	5	12294.0000	46.26	16.48	29.78	74	-27.74	0.5	Horizontal	PK	Pass
	5	12294.0000	37.91	16.48	21.43	54	-16.09	0.5	Horizontal	AV	Pass
/	6	17988.0000	53.42	23.84	29.58	74	-20.58	0.7	Horizontal	PK	Pass
	6	17988 0000	46.56	23.84	22.72	54	-7 44	0.7	Horizontal	AV	Pass

WSET WSET WSET WSET WSET WSET

WSCT WSCT WSCT WSCT

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W5CT°





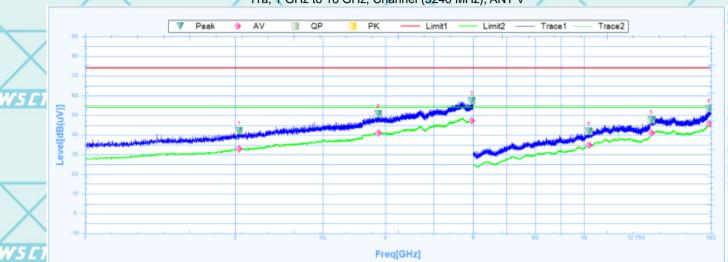


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11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT V

W5CT

WSET



	Suspu	ited Data Lis	st									1
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2034.3750	42.15	26.02	16.13	74	-31.85	-0.1	Vertical	PK	Pass	ľ
/	1	2034.3750	32.85	26.02	6.83	54	-21.15	-0.1	Vertical	AV	Pass	
/	2	3870.0000	50.71	29.39	21.32	74	-23.29	357.9	Vertical	PK	Pass	
_	2	3870.0000	41.12	29.39	11.73	54	-12.88	357.9	Vertical	AV	Pass	
L	3	5961.8750	57.44	32.74	24.7	74	-16.56	-0.1	Vertical	PK	Pass	ŀ
	3	5961.8750	47.2	32.74	14.46	54	-6.8	-0.1	Vertical	AV	Pass	1
	4	10243.5000	42.02	13.11	28.91	74	-31.98	353	Vertical	PK	Pass	
	4	10243.5000	34.84	13.11	21.73	54	-19.16	353	Vertical	AV	Pass	
	5	13669.5000	47.66	18.17	29.49	74	-26.34	220.5	Vertical	PK	Pass	j
/	5	13669.5000	41.11	18.17	22.94	54	-12.89	220.5	Vertical	AV	Pass	
	6	17844.0000	53.5	22.9	30.6	74	-20.5	342.4	Vertical	PK	Pass	
	6	17844.0000	45.62	22.9	22.72	54	-8.38	342.4	Vertical	AV	Pass	

W5CT°	WS CT*	WSET	WSET	WSCT

W5 CT

W5 CT W5 C7 W5 C7 W5 C1

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WSET

W5 CT

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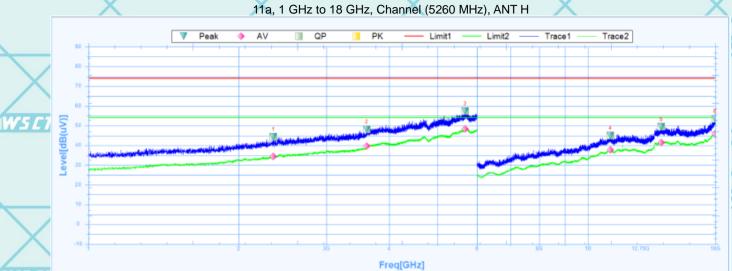






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	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2345.6250	44.28	27.08	17.2	74	-29.72	0	Horizontal	PK	Pass	1
,	1	2345.6250	34.5	27.08	7.42	54	-19.5	0	Horizontal	AV	Pass	
	2	3608.1250	48.04	28.76	19.28	74	-25.96	49.9	Horizontal	PK	Pass	
/	2	3608.1250	39.81	28.76	11.05	54	-14.19	49.9	Horizontal	AV	Pass	
7	3	5679.3750	57.34	32.29	25.05	74	-16.66	335.6	Horizontal	PK	Pass	
24	3	5679.3750	48.24	32.29	15.95	54	-5.76	335.6	Horizontal	AV	Pass	
	4	11088.0000	44.97	15.89	29.08	74	-29.03	360	Horizontal	PK	Pass	ľ
	4	11088.0000	37.68	15.89	21.79	54	-16.32	360	Horizontal	AV	Pass	
	5	14020.5000	49.33	19.1	30.23	74	-24.67	139.1	Horizontal	PK	Pass	
	5	14020.5000	41.54	19.1	22.44	54	-12.46	139.1	Horizontal	AV	Pass	4
/	6	17979.0000	53.44	23.78	29.66	74	-20.56	320.8	Horizontal	PK	Pass	
	6	17979.0000	45.97	23.78	22.19	54	-8.03	320.8	Horizontal	AV	Pass	

W5E W5 CI W5 C

W5 E1 W5 CT W5 E1 WS C1

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W5C1

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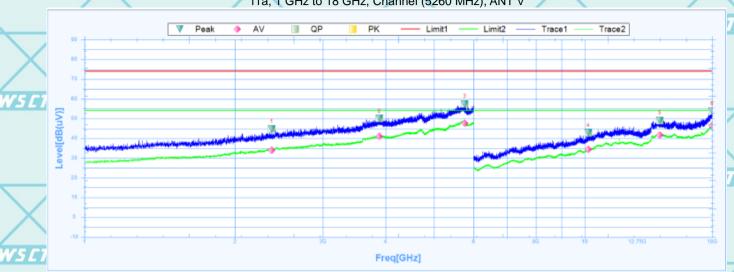




Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT V

W5CT



	Suspu	ited Data Lis	it								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2367.5000	44.73	27.15	17.58	74	-29.27	345.6	Vertical	PK	Pass
/	1	2367.5000	33.89	27.15	6.74	54	-20.11	345.6	Vertical	AV	Pass
	2	3888.7500	50.11	29.43	20.68	74	-23.89	34.4	Vertical	PK	Pass
	2	3888.7500	41.15	29.43	11.72	54	-12.85	34.4	Vertical	AV	Pass
E I	3	5763.7500	57.49	32.42	25.07	74	-16.51	89.4	Vertical	PK	Pass
	3	5763.7500	47.56	32.42	15.14	54	-6.44	89.4	Vertical	AV	Pass
	4	10171.5000	42.86	12.88	29.98	74	-31.14	154.7	Vertical	PK	Pass
	4	10171.5000	34.38	12.88	21.5	54	-19.62	154.7	Vertical	AV	Pass
	5	14148.0000	49.1	18.98	30.12	74	-24.9	71	Vertical	PK	Pass
	5	14148.0000	41.75	18.98	22.77	54	-12.25	71	Vertical	AV	Pass
	6	17988.0000	53.92	23.84	30.08	74	-20.08	294.6	Vertical	PK	Pass
1	6	17988.0000	46.5	23.84	22.66	54	-7.5	294.6	Vertical	AV	Pass

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W5 CT

W5C1

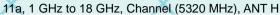


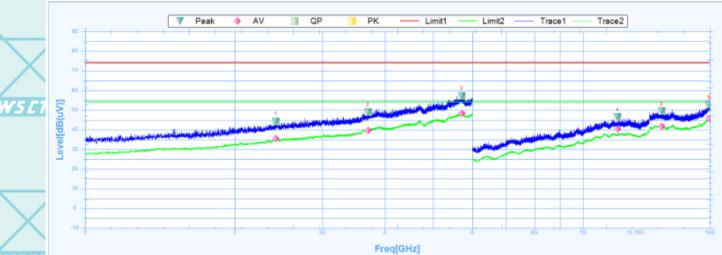




Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

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W5 C

_	Suspu	ited Data Lis	it								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2416.8750	44.23	27.32	16.91	74	-29.77	0	Horizontal	PK	Pass
,	1	2416.8750	35.41	27.32	8.09	54	-18.59	0	Horizontal	AV	Pass
	2	3700.6250	49.08	28.98	20.1	74	-24.92	234.1	Horizontal	PK	Pass
	2	3700.6250	39.67	28.98	10.69	54	-14.33	234.1	Horizontal	AV	Pass
Ţ	3	5708.1250	57.23	32.33	24.9	74	-16.77	143.2	Horizontal	PK	Pass
L	3	5708.1250	48.3	32.33	15.97	54	-5.7	143.2	Horizontal	AV	Pass
	4	11745.0000	46.51	16.11	30.4	74	-27.49	102.2	Horizontal	PK	Pass
	4	11745.0000	40.44	16.11	24.33	54	-13.56	102.2	Horizontal	AV	Pass
	5	14401.5000	49.42	18.72	30.7	74	-24.58	71	Horizontal	PK	Pass
	5	14401.5000	41.66	18.72	22.94	54	-12.34	71	Horizontal	AV	Pass
1	6	17932.5000	52.67	23.47	29.2	74	-21.33	133.1	Horizontal	PK	Pass
	6	17932.5000	45.64	23.47	22.17	54	-8.36	133.1	Horizontal	AV	Pass

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WSCT

W5C1



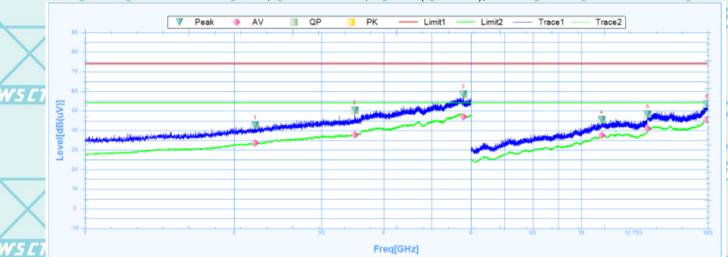




Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

W5CT





W5 E

	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2201.8750	42.59	26.59	16	74	-31.41	47.2	Vertical	PK	Pass	/
/	1	2201.8750	33.49	26.59	6.9	54	-20.51	47.2	Vertical	AV	Pass	
	2	3498.1250	50.33	28.5	21.83	74	-23.67	256.4	Vertical	PK	Pass	
	2	3498.1250	37.72	28.5	9.22	54	-16.28	256.4	Vertical	AV	Pass	
L	3	5790.6250	58.58	32.46	26.12	74	-15.42	194.2	Vertical	PK	Pass	
	3	5790.6250	46.9	32.46	14.44	54	-7.1	194.2	Vertical	AV	Pass	1
	4	11001.0000	45.43	15.62	29.81	74	-28.57	175.4	Vertical	PK	Pass	
	4	11001.0000	37.44	15.62	21.82	54	-16.56	175.4	Vertical	AV	Pass	
	5	13624.5000	48.31	18.04	30.27	74	-25.69	340.9	Vertical	PK	Pass	7
7	5	13624.5000	41.15	18.04	23.11	54	-12.85	340.9	Vertical	AV	Pass	
	6	17935.5000	53.36	23.49	29.87	74	-20.64	-0.1	Vertical	PK	Pass	
1	6	17935.5000	45.56	23.49	22.07	54	-8.44	-0.1	Vertical	AV	Pass	

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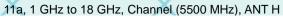






Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

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W5C

	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2311.8750	45.09	26.96	18.13	74	-28.91	188.2	Horizontal	PK	Pass	7
	1	2311.8750	35.96	26.96	9	54	-18.04	188.2	Horizontal	AV	Pass	
	2	3881.2500	52.51	29.42	23.09	74	-21.49	360.1	Horizontal	PK	Pass	
	2	3881.2500	43.32	29.42	13.9	54	-10.68	360.1	Horizontal	AV	Pass	
7	3	5810.0000	63.59	32.5	31.09	74	-10.41	319.7	Horizontal	PK	Pass	
	3	5810.0000	50.8	32.5	18.3	54	-3.2	319.7	Horizontal	AV	Pass	
	4	10513.5000	43.93	13.99	29.94	74	-30.07	354.3	Horizontal	PK	Pass	0
	4	10513.5000	35.46	13.99	21.47	54	-18.54	354.3	Horizontal	AV	Pass	
	5	13647.0000	49.62	18.1	31.52	74	-24.38	153.9	Horizontal	PK	Pass	
	5	13647.0000	40.99	18.1	22.89	54	-13.01	153.9	Horizontal	AV	Pass	1
	6	17992.5000	53.71	23.88	29.83	74	-20.29	2.4	Horizontal	PK	Pass	
	6	17002 5000	4E 70	22.00	21.0	E4	0.22	2.4	Horizontal	۸۱/	Dace	

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WSET WSET







Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

W5CT





NS C

W5E

	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	3091.8750	48.34	28.26	20.08	74	-25.66	273.1	Vertical	PK	Pass
_	1	3091.8750	39.31	28.26	11.05	54	-14.69	273.1	Vertical	AV	Pass
	2	4738.1250	55.6	31.08	24.52	74	-18.4	213.4	Vertical	PK	Pass
/	2	4738.1250	45.4	31.08	14.32	54	-8.6	213.4	Vertical	AV	Pass
I	3	5798.7500	63.63	32.48	31.15	74	-10.37	299.4	Vertical	PK	Pass
L	3	5798.7500	50.52	32.48	18.04	54	-3.48	299.4	Vertical	AV	Pass
	4	9376.5000	39.81	10.7	29.11	74	-34.19	311.8	Vertical	PK	Pass
	4	9376.5000	31.61	10.7	20.91	54	-22.39	311.8	Vertical	AV	Pass
	5	14179.5000	48.79	18.95	29.84	74	-25.21	17.8	Vertical	PK	Pass
	5	14179.5000	41.55	18.95	22.6	54	-12.45	17.8	Vertical	AV	Pass
/	6	17970.0000	52.89	23.72	29.17	74	-21.11	290.3	Vertical	PK	Pass
	6	17970.0000	46.45	23.72	22.73	54	-7.55	290.3	Vertical	AV	Pass

W5 CI W5 CI W5 C W5 C1

W5C1 W5 E1 W5 E1 W5 CI W5C1

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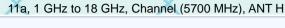


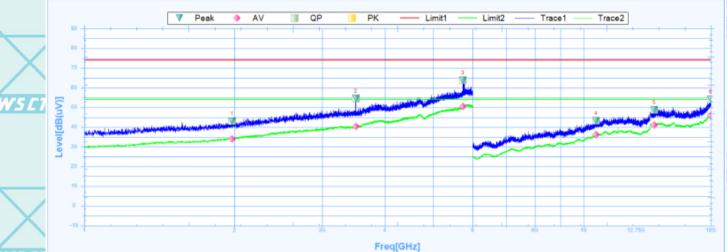




Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

W5CT





NS C

_	Suspu	Susputed Data List												
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict			
	1	1976.8750	43.08	25.8	17.28	74	-30.92	347	Horizontal	PK	Pass			
	1	1976.8750	34.01	25.8	8.21	54	-19.99	347	Horizontal	AV	Pass			
	2	3498.1250	54.54	28.5	26.04	74	-19.46	165.5	Horizontal	PK	Pass			
	2	3498.1250	40.35	28.5	11.85	54	-13.65	165.5	Horizontal	AV	Pass			
4	3	5737.5000	63.75	32.38	31.37	74	-10.25	159.5	Horizontal	PK	Pass			
24	3	5737.5000	50.51	32.38	18.13	54	-3.49	159.5	Horizontal	AV	Pass			
	4	10603.5000	43.33	14.33	29	74	-30.67	76.2	Horizontal	PK	Pass			
	4	10603.5000	36.18	14.33	21.85	54	-17.82	76.2	Horizontal	AV	Pass			
	5	13861.5000	48.79	18.72	30.07	74	-25.21	99	Horizontal	PK	Pass			
	5	13861.5000	41.13	18.72	22.41	54	-12.87	99	Horizontal	AV	Pass			
/	6	17980.5000	54.05	23.79	30.26	74	-19.95	141.9	Horizontal	PK	Pass			
	6	17980 5000	45.93	23.79	22 14	54	-8.07	141 9	Horizontal	Δ\/	Page			

W5 CT W5 E1 W5 CI W5 []

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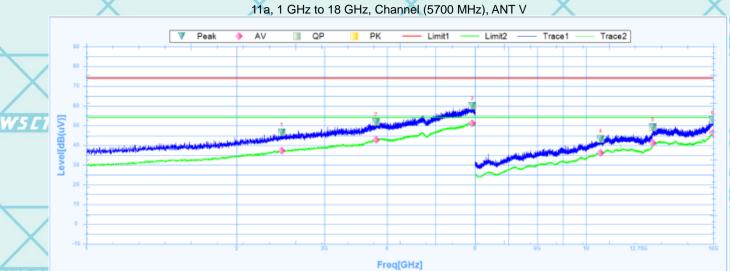






Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

W5CT



W5 C

Susputed Data List											
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2458.1250	46.47	27.46	19.01	74	-27.53	160.7	Vertical	PK	Pass
,	1	2458.1250	37.36	27.46	9.9	54	-16.64	160.7	Vertical	AV	Pass
(2	3800.6250	51.93	29.22	22.71	74	-22.07	29.2	Vertical	PK	Pass
	2	3800.6250	42.7	29.22	13.48	54	-11.3	29.2	Vertical	AV	Pass
71	3	5923.7500	59.97	32.68	27.29	74	-14.03	212.1	Vertical	PK	Pass
7	3	5923.7500	51.3	32.68	18.62	54	-2.7	212.1	Vertical	AV	Pass
	4	10711.5000	43.36	14.63	28.73	74	-30.64	0	Vertical	PK	Pass
	4	10711.5000	36.16	14.63	21.53	54	-17.84	0	Vertical	AV	Pass
	5	13615.5000	49.14	18.01	31.13	74	-24.86	0	Vertical	PK	Pass
	5	13615.5000	41.25	18.01	23.24	54	-12.75	0	Vertical	AV	Pass
1	6	17953.5000	52.67	23.6	29.07	74	-21.33	0	Vertical	PK	Pass
	6	17953 5000	46 24	23.6	22 64	54	-7.76	0	Vertical	AV	Pass

W5 CT W5 E1 W5 CI W5 []

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W5 C1



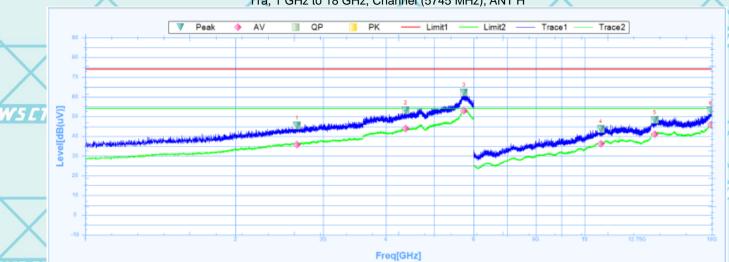




Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

11a, 1 GHz to 18 GHz, Channel (5745 MHz), ANT H

W5CT



W5 E

207														
	Suspu	Susputed Data List												
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict			
	1	2653.7500	45.44	27.78	17.66	74	-28.56	335.2	Horizontal	PK	Pass			
,	1	2653.7500	35.82	27.78	8.04	54	-18.18	335.2	Horizontal	AV	Pass			
	2	4385.0000	53.23	30.39	22.84	74	-20.77	129.5	Horizontal	PK	Pass			
\	2	4385.0000	44	30.39	13.61	54	-10	129.5	Horizontal	AV	Pass			
Ţ	3	5740.6250	62.2	32.38	29.82	74	-11.8	1.4	Horizontal	PK	Pass			
	3	5740.6250	52.9	32.38	20.52	54	-1.1	1.4	Horizontal	AV	Pass			
	4	10785.0000	43.76	14.75	29.01	74	-30.24	167.1	Horizontal	PK	Pass			
	4	10785.0000	36.27	14.75	21.52	54	-17.73	167.1	Horizontal	AV	Pass			
	5	13839.0000	48.34	18.65	29.69	74	-25.66	350.6	Horizontal	PK	Pass			
	5	13839.0000	41.06	18.65	22.41	54	-12.94	350.6	Horizontal	AV	Pass			
1	6	17913.0000	53.06	23.34	29.72	74	-20.94	39.2	Horizontal	PK	Pass			
	6	17913.0000	45.98	23.34	22.64	54	-8.02	39.2	Horizontal	AV	Pass			

WSET W5 C

W5 CT W5 E1 W5 CI W5 [] W5C1

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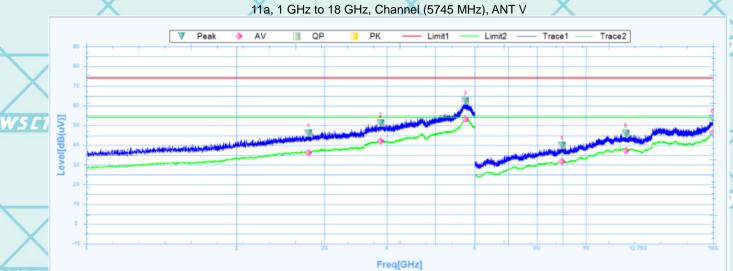






Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

W5CT



W5 C1

27 /											
Susputed Data List											
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2786.2500	46.21	27.94	18.27	74	-27.79	326	Vertical	PK	Pass
,	1	2786.2500	36.26	27.94	8.32	54	-17.74	326	Vertical	AV	Pass
	2	3885.6250	51.31	29.43	21.88	74	-22.69	347.9	Vertical	PK	Pass
-	2	3885.6250	42.11	29.43	12.68	54	-11.89	347.9	Vertical	AV	Pass
Ţ	3	5745.0000	62.36	32.39	29.97	74	-11.64	-0.1	Vertical	PK	Pass
L	3	5745.0000	53.14	32.39	20.75	54	-0.86	-0.1	Vertical	AV	Pass
	4	8973.0000	39.98	9.83	30.15	74	-34.02	91.4	Vertical	PK	Pass
	4	8973.0000	31.73	9.83	21.9	54	-22.27	91.4	Vertical	AV	Pass
	5	12043.5000	46	16.76	29.24	74	-28	299.3	Vertical	PK	Pass
	5	12043.5000	37.35	16.76	20.59	54	-16.65	299.3	Vertical	AV	Pass
/	6	17973.0000	53.47	23.74	29.73	74	-20.53	48.2	Vertical	PK	Pass
	6	17073 0000	46.41	22.74	22.67	54	-7.50	49.2	Vertical	Δ\/	Page

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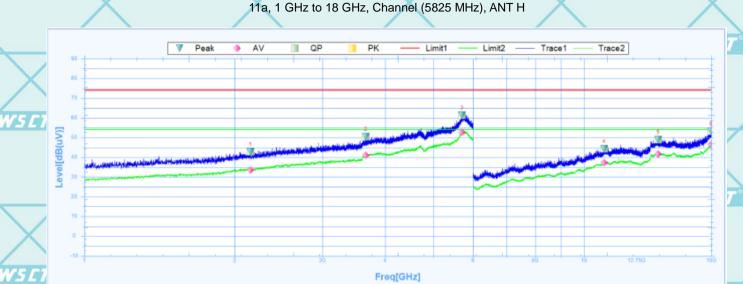
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Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2



Susputed Data List Reading **Factor** Limit Margin Deg Freq. Level NO. **Polarity** Trace **Verdict** [MHz] [dB(uV)] [dB] [dB(uV)] [dB] [dB] [°] 2149.3750 42.85 26.41 16.44 74 -31.15 347.2 Horizontal PK Pass 2149.3750 33.62 26.41 7.21 54 -20.38 347.2 ΑV Pass Horizontal 2 3659.3750 50.61 28.88 21.73 74 -23.39 359.5 Horizontal PΚ Pass 3659.3750 41.08 28.88 12.2 54 -12.92359.5 Horizontal ΑV Pass 3 5706.2500 61.45 32.33 74 -12.55 332.2 PΚ 29.12 Horizontal Pass 52.77 -1.23 3 5706.2500 32.33 20.44 54 332.2 ΑV Pass Horizontal 10980.0000 44.41 15.5 28.91 74 -29.59 274.2 PΚ Pass Horizontal 4 Pass 10980.0000 37.2 15.5 21.7 54 -16.8 274.2 Horizontal ΑV 5 14098.5000 49.06 19.03 30.03 74 -24.94 184.6 PΚ Pass Horizontal 5 14098.5000 41.64 19.03 22.61 54 -12.36 184.6 Horizontal ΑV Pass 6 17986.5000 53.23 23.83 29.4 74 -20.77 0.5 Horizontal PΚ Pass 17986.5000 46.46 23.83 22.63 54 -7.54 0.5 Horizontal ΑV Pass

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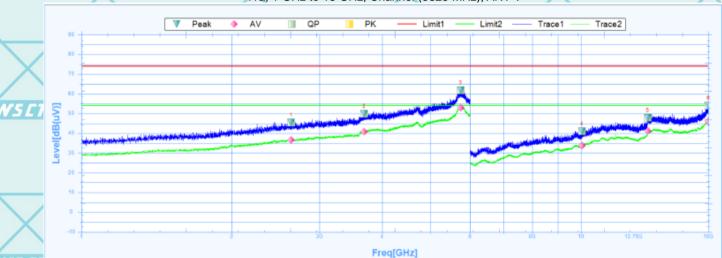






Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2

11a, 1 GHz to 18 GHz, Channel (5825 MHz), ANT V



	Suspu	ited Data Lis	it									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2628.7500	45.5	27.75	17.75	74	-28.5	81	Vertical	PK	Pass	1
	1	2628.7500	36.73	27.75	8.98	54	-17.27	81	Vertical	AV	Pass	
	2	3683.1250	49.94	28.94	21	74	-24.06	271	Vertical	PK	Pass	
/	2	3683.1250	40.93	28.94	11.99	54	-13.07	271	Vertical	AV	Pass	
7	3	5742.5000	61.79	32.39	29.4	74	-12.21	64.2	Vertical	PK	Pass	
24	3	5742.5000	52.92	32.39	20.53	54	-1.08	64.2	Vertical	AV	Pass	
	4	10048.5000	41.12	12.49	28.63	74	-32.88	30.4	Vertical	PK	Pass	ľ
	4	10048.5000	33.78	12.49	21.29	54	-20.22	30.4	Vertical	AV	Pass	
	5	13605.0000	47.79	17.98	29.81	74	-26.21	54.3	Vertical	PK	Pass	
	5	13605.0000	41.26	17.98	23.28	54	-12.74	54.3	Vertical	AV	Pass	4
/	6	17995.5000	53.98	23.9	30.08	74	-20.02	360.1	Vertical	PK	Pass	
	6	17995.5000	46.12	23.9	22.22	54	-7.88	360.1	Vertical	AV	Pass	ı

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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7.4 ANTENNA REQUIREMENT

Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

Antenna Gain

The Bluetooth antenna is a PIFA Antenna, it meets the standards, and the best case gain of the

	The Bluetooth antenr	na is a PIFA Antenna. it i	meets the standards. a	and the best case dai	n of the
	antenna is 1.05dBi.				
	Please refer to the at	tached "T1001W Interna	al Photo" for the anten	na location	
W5ET"	WSET	WSET	W5 E1	W5	GT [*]
	X		X		X
	WSCT	WSET	WS ET	WSET	WSET
WSET	WSET	WSET	W5 E1	W.S	T /
	W5 CT	W5 ET	WSET	WS ET"	WSET
WSET	WSET	WSET	WSCI	WS	GT /
	WSET	W5 CT	WSET	WS ET"	WSET
WSET	WSET	W5 ET	WSCI	W5	ET .
	W5CT°	WSET	WSET	WSET	incations Testing Co
				\ddot{S}	W5CT Shenzha
	X	X		ardization	WSCT Sher
WSET	WSET	WSET	W5 C1	The state of the s	
		Avenue, Shiyan Street, Bao'an District, Shen		深圳世标检测认证股份有限公司	S DIJOM # DITOS

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7.5 EMISSION BANDWIDTH 7.5.1 TEST EQUIPMENT

Please refer to Section 5 this report.

7.5.2 TEST PROCEDURE

	1.3.2 IEST F	TOCEDORE		
WELL	-26dB Bandwidth	and 99% Occupied Bandwidth:		
LE14	Test Method:	a)The transmitter was radiated to the	spectrum analyzer in peak hold mode.	11213
		b)Measure the maximum width of the	e emission that is 26 dB down from the peak o	f the
	X	emission Compare this with the RBW	setting of the analyzer. Readjust RBW and re	epeat
		measurement as needed until the RBV	W/EBW ratio is approximately 1%.	
	Test Equipment Sett	ting – 26dB Bandwidth:	Test Equipment Setting – 99%% Bandwidth:	
	a)Attenuation: Auto	Walt	a)Span: 1.5 times to 5.0 times the OBW	WSLI
	b)Span Frequency: >	> 26dB Bandwidth	b)RBW: 1 % to 5 % of the OBW	
X	c)RBW: Approxima	tely 1% of the emission bandwidth	c)VBW: ≥ 3 x RBW	X
	d) $VBW: VBW > RE$	3W	d)Detector: Peak	
	e)Detector: Peak		e)Trace: Max Hold	
WS C1	f)Trace: Max Hold	WSET WSET	WSCT	W5CT°
	g)Sweep Time: Auto			
	6 dB Bandwidth:			
	Test Method:		spectrum analyzer in peak hold mode.	
			with KDB789033 D02 v01 for Compliance Tes	
	W5CT°		structure (U-NII) Devices - section (C) Emissio	n WECT
\		Bandwidth.	TIPI TIPI TIPI TIPI TIPI TIPI TIPI TIPI	1517
			med in accordance with KDB662911 D01 v02r	01
X		Emissions	X	X
		Testing of Transmitters with Multiple C		
		d)Measured the spectrum width with p	oower higher than 6dB below carrier.	

r i	Test I	Equipment	Setting:
and the last			

a)Attenuation: Auto e)Detector: Peak b)Span Frequency: > 6dB Bandwidth f)Trace: Max Hold c)RBW: 100kHz g)Sweep Time: Auto

d)VBW: $\geq 3 \times RBW$

Maximum Conducted Output Power Measurement:

Test Method: a)The transmitter output (antenna port) was connected to the power meter. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (E) Maximum conducted output power =>3. Measurement using a Power Meter (PM) =>b) Method PM-G

(Measurement using a gated RF average power meter). c)Multiple antenna systems was performed in accordance with KDB662911 D01 v02r01

Testing of Transmitters with Multiple Outputs in the Same Band.

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

Test Equipment Setting: Detector - Average

Power Spectral Density:

Test Method: a)The transmitter output (antenna port) was connected RF switch to the spectrum analyzer. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD)

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

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

d)When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for

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

frequency bins is computed in the same way.

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

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Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2 and the final result should ≤ 30 dBm. Test Equipment Setting: a)Attenuation: Auto e)Detector: RMS b) Span Frequency: Encompass the entire emissions bandwidth (EBW) of f)Trace: AVERAGE g)Sweep Time: Auto the signal c)RBW: 1000 kHz h)Trace Average: 100 times d)VBW: 3000 kHz 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 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 e)Sweep Time: Auto b)Span Frequency: Entire absence of modulation emissions bandwidth c)RBW: 10 kHz d)VBW: 10 kHz **CONFIGURATION OF THE EUT** 7.5.3 Same as section 3.4 of this report 7.5.4 EUT OPERATING CONDITION Same as section 3.5 of this report.

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	7.5.5 EINIT					
	-26dB Bandwidth and 99% Occupied Bandwidth:					
	Limit: No restriction limits.	WCLT WCLT	WSFT			
	-6 dB Bandwidth:	W. C.	/ 4-1-1-1			
\ /	Limit: For digital modulation systems, the mi	inimum 6dB bandwidth shall be at least 500 kHz.				
X	Test Equipment Setting:	X				
	a)Attenuation: Auto	e)Detector: Peak				
FE F1	b)Span Frequency: > 6dB Bandwidth c)RBW: 100kHz	f)Trace: Max Hold	0			
لجلت		g)Sweep Time: Auto				
	d)VBW: ≥ 3 x RBW					
	Maximum Conducted Output Power Measurement:		X			
	⊠5.15~5.2	25 GHz				
	☐Limit of Outdoor access point:	☐Limit of Indoor access point:				
	The maximum conducted output power over the	The maximum conducted output power over the	WSCT			
	frequency band of operation shall not exceed 1 W	frequency band of operation shall not exceed 1 W				
\vee	(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 la IBi I//				
	greater than 6 dBi are used, both the maximum	exceed 6 dBi. If transmitting antennas of directional				
FE F1	conducted output power and the maximum power	gain greater than 6 dBi are used, both the maximum	-0			
لحلاع	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:		MILE CT			
	The maximum conducted output power over the	The maximum conducted output power over the				
	frequency band of operation shall not exceed 1 W	frequency band of operation shall not exceed 250				
\wedge	(30dBm). Fixed point-to-point U-NII devices may employ	mW				
	antennas with directional gain up to 23 dBi without any	(24dBm) provided the maximum antenna gain does				
ee e 1	corresponding reduction in the maximum conducted	not				
علاء	output power or maximum power spectral density. For	exceed 6 dBi. If transmitting antennas of directional				
	fixed point-to-point transmitters that employ a directional	gain greater than 6 dBi are used, both the maximum				
	antenna gain greater than 23 dBi, a 1 dB reduction in	conducted output power and the maximum power				
	maximum conducted output power and maximum	spectral density shall be reduced by the amount in				
	power spectral density is required for each 1 dB of	dB				
	antenna gain in excess of 23 dBi.	that the directional gain of the antenna exceeds 6	WSCT			
	/ UF178	dBi.	/ UFIA			
	⊠5.25-5.35 GHz & ∑	5.470-5.725 GHz				
X	The maximum conducted output power over the frequency					
	mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB el					
	antennas of directional gain greater than 6 dBi are used, b					
75 F1						
	maximum power spectral density shall be reduced by the	amount in db that the directional gain of the antenna				
	exceeds 6 dBi.	05.011	\ /			
	∑5.725~5.		X			
	The maximum conducted output power over the frequency					
	transmitting antennas of directional gain greater than 6 dE					
	power and the maximum power spectral density shall be re		W5CT			
	the antenna exceeds 6 dBi. However, fixed point-to-point	U-NII devices operating in this band may employ	/			
\ /	transmitting antennas with					
X	directional gain greater than 6 dBi without any correspond	ding reduction in transmitter conducted power.				
	Power Spectral Density					
		OF CLI-				
561	□ 5.15~5.2					
	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	X			
	□5.25-5.35 GHz	11 dBm/MHz				
	□5.470-5.725 GHz	11 dBm/MHz				
	⊠5.725~5.85 GHz	30 dBm/500kHz	ation& Testing			
	Frequency Stability Measurement:	(8)	o č			
/		the band of operation under all conditions of normal	12			
	operation as specified in the user's ma		WE CTO S			
			res les			
The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band						

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802.11n specification).

7.5.6 TEST RESULT

WSET"

W5CT

W5 CT

W5 C1

-26dB Bandwidth and 99% Occupied Bandwidth

÷			/		_
Ż	Product	: EUT-Sample	Test Mode	: See section 3.4	1
	Test Item	: -26dB Bandwidth/-6dB Bandwidth and 99% Occupied Bandwidth	Temperature	: 25 °C	
	Test Voltage	: DC 3.85V	Humidity	: 56%RH	
	Test Result	: PASS			1

-26Db&99% Bandwidth

Z0DDQ33 /0	Danawiatti					
WSET	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	99%dB Bandwidth (MHz)	Verdict	7
	а	5180	22.01	16.437	Pass	
	а	5240	19.70	16.396	Pass	
<u> </u>	а	5260	19.55	16.401	Pass	A
WSET	а	5320	19.66	16.427	Pass	W5Ci
	a	5500	21.43	16.430	Pass	
X	a X	5700	19.56	16.380	Pass	
	n20	5180	21.58	17.581	Pass	
WSCT	n20	5240	20.63	17.565	Pass	
	n20	5260	20.46	17.566	Pass	
\sim	n20	5320	20.14	17.547	Pass	
	n20	5500	20.73	17.566	Pass	
////	n20	5700	19.92	17.555	Pass	Average:
W5ET*	n40	5190	42.10	35.990	Pass	W5C1
	n40	5230	41.76	36.029	Pass	
X	n40	5270	40.46	36.016	Pass	
	n40	5310	40.02	36.001	Pass	
W5CT"	n40	5510	40.55	36.023	Pass 5	7
	n40	5670	40.83	35.995	Pass	
X	ac20	5180	20.25	17.545	Pass	X
	ac20	5240	20.09	17.529	Pass	
WSCT	ac20	5260	19.87	17.523	Pass	W5C1
1171	ac20	5320	19.89	17.554	Pass	1519
	ac20	5500	19.95	17.544	Pass	
	ac20	5700	19.94	17.545	Pass	
	ac40	5190	40.05	35.895	Pass	
W5 CT	ac40	5230	40.25	35.968	Pass 5	7
	ac40	5270	40.10	35.963	Pass	
X	ac40	5310	40.46	35.942	Pass	X
	ac40	5510	40.10	35.962	Pass	
WSCT	ac40	5670	40.16	35.929	Pass	acation& Testino
VI VI	ac80	5210	80.21	75.291	Pass	THE STIPLE OF
	ac80	5290	80.89	75.391	Pass 🧐	Young
	ac80	5530	80.58	75.205	Pass 🧗	W5CT°
	ac80	5610	80.23	75.265	Pass	enzh

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W5 CT W







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W5CT

-6dB&99% Bandwidth

v	abaco /o	Banawiani					
	Mode	Frequency	-6 dB Bandwidth	99%dB Bandwidth	Limit -6 dB	Verdict	
		(MHz)	(MHz)	(MHz)	Bandwidth (MHz)		CT"
	а	5745	13.10	16.345	0.5	Pass	
X	а	5825	14.39	16.337	0.5	Pass	
	n20	5745	15.00	17.534	0.5	Pass	
W5ET	n20	5825	16.13	17.533	0.5	Pass	
WELLA	n40	5755	35.03	35.844	0.5	Pass	-/-
	n40	5795	35.07	35.841	0.5	Pass	
	ac20	5745	15.05	17.524	0.5	Pass	
	ac20	5825	13.78	17.512	0.5	Pass	
	ac40	5755	4W5 C 32.59	W5 35.804	W 5 0.5	Pass	C7 🖺
	ac40	5795	35.09	35.829	0.5	Pass	
X	ac80	5775	75.09	75.100	0.5	Pass	

	ac40	3733	32.33	33.004	-0.5	F ass -	
	ac40	5795	35.09	35.829	0.5	Pass	
X	ac80	5775	75.09	75.100	0.5	Pass	
		A			\		
W5 ET		W5 CT	WSET	WSET	W5	ET	/
	X		X	X	X	X	
	A		Anna anna anna anna anna anna anna anna	Annual Control		-	
	WSET		WSET	W5 ET	W5 CT	W5 C	
			\ /				
X		X	X	X			
THE PERSON		THE STATE OF THE S		/www.			
W5CT"	_	W5 CT	W5 CT	WSET	W5		_/
	X		X	X	X	X	
	WSET		WSET	W5ET	WSET	WE	
			WELGE	VEIGH	VELL	W5 E	
				\/			
X		X	X	X			
WSET		WSET	WSCT	W5 ET	W5	CT	
711713			1126	112			$\overline{}$
	X			X		X	
	WS CT		W5 CT"	WS CT	W5 CT	W5 E	
					/		
W5CT"		W5ET	W5 CT	W5 CT	W 5	CT°	
							7
		7					
	W5 CT		WSET	WSLT	W5 CT	acation& Testin	
						Ser. Ser.	
					8		mp(
					ardizatio	W5CT°	She
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-26Db&99% Bandwidth



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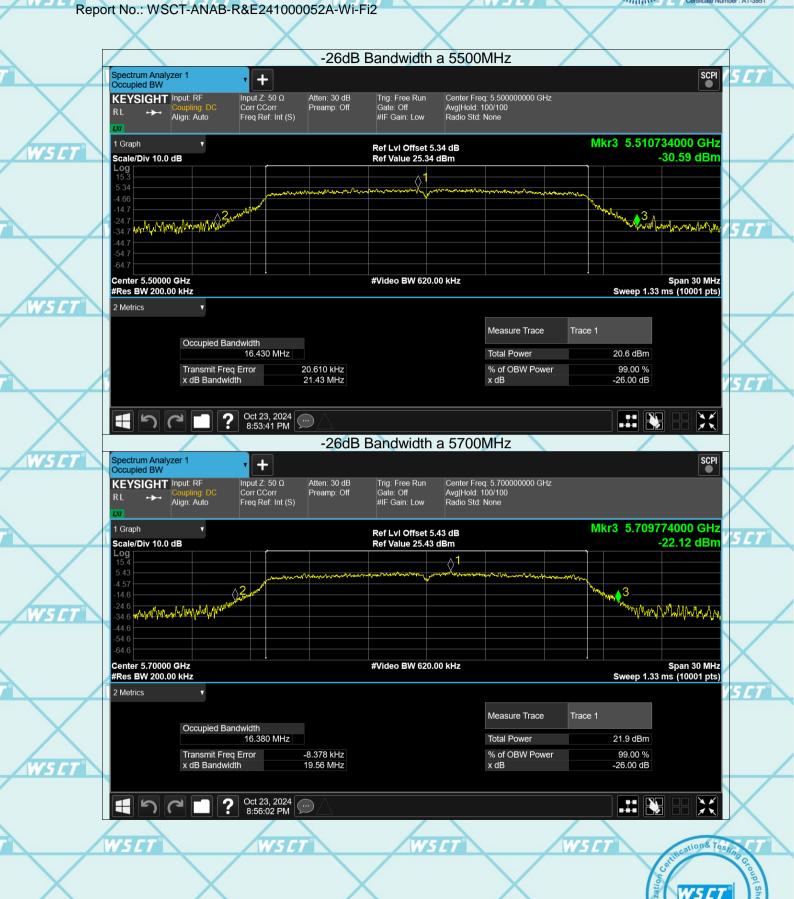
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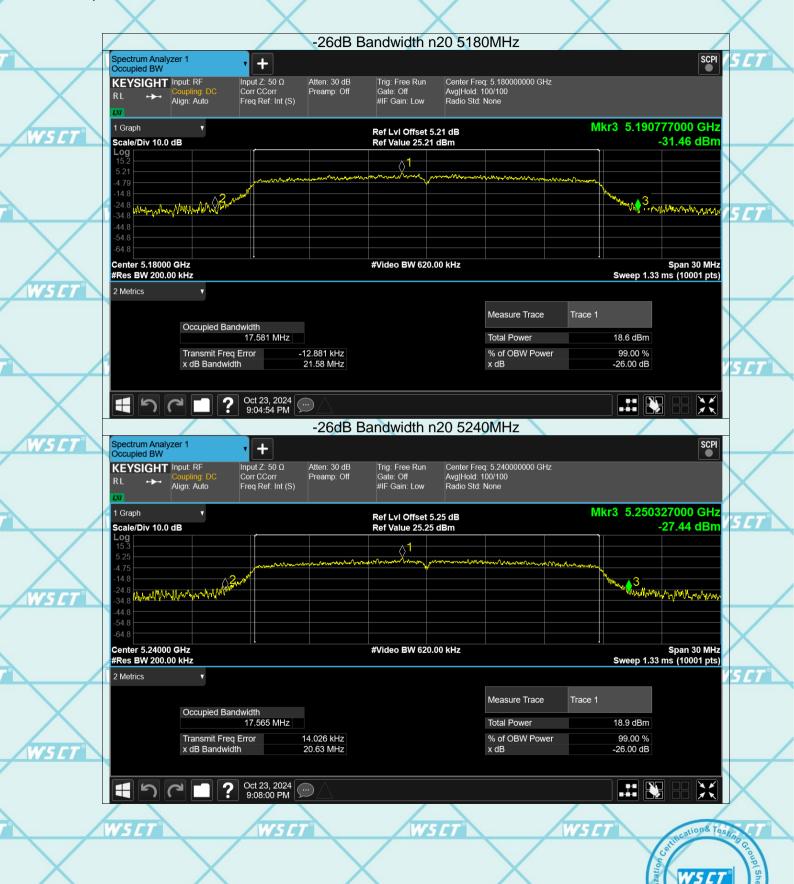
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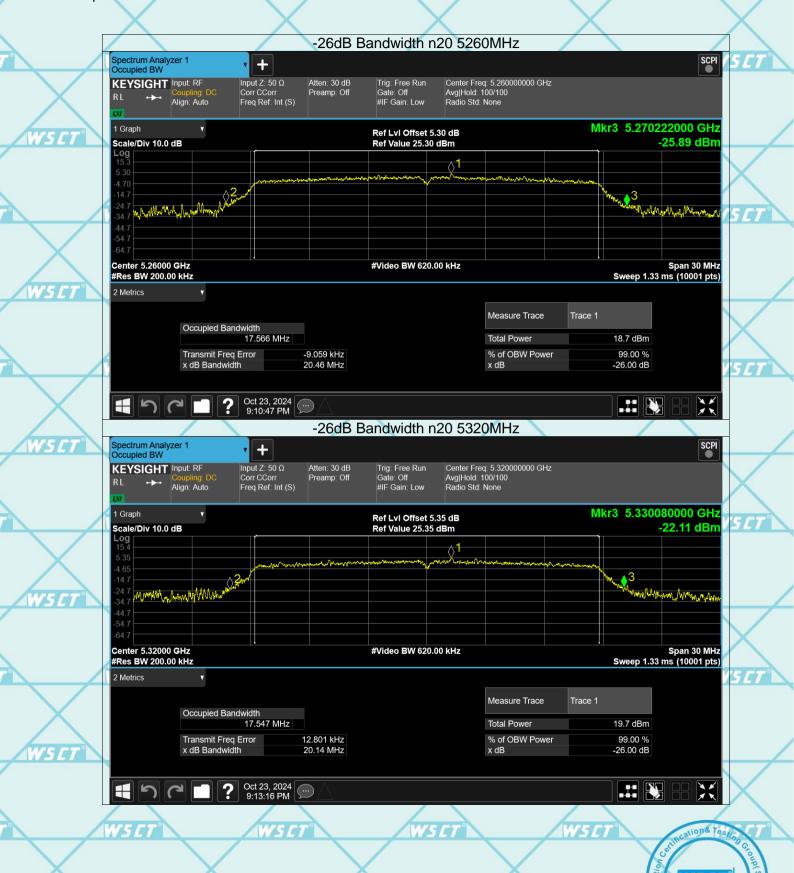
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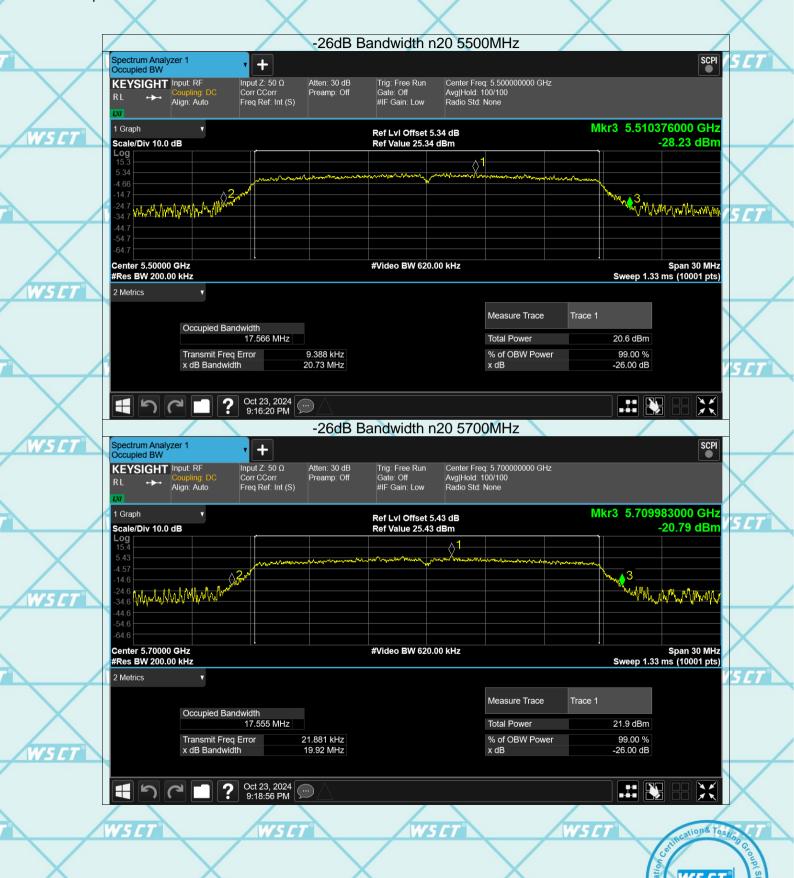
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WSET

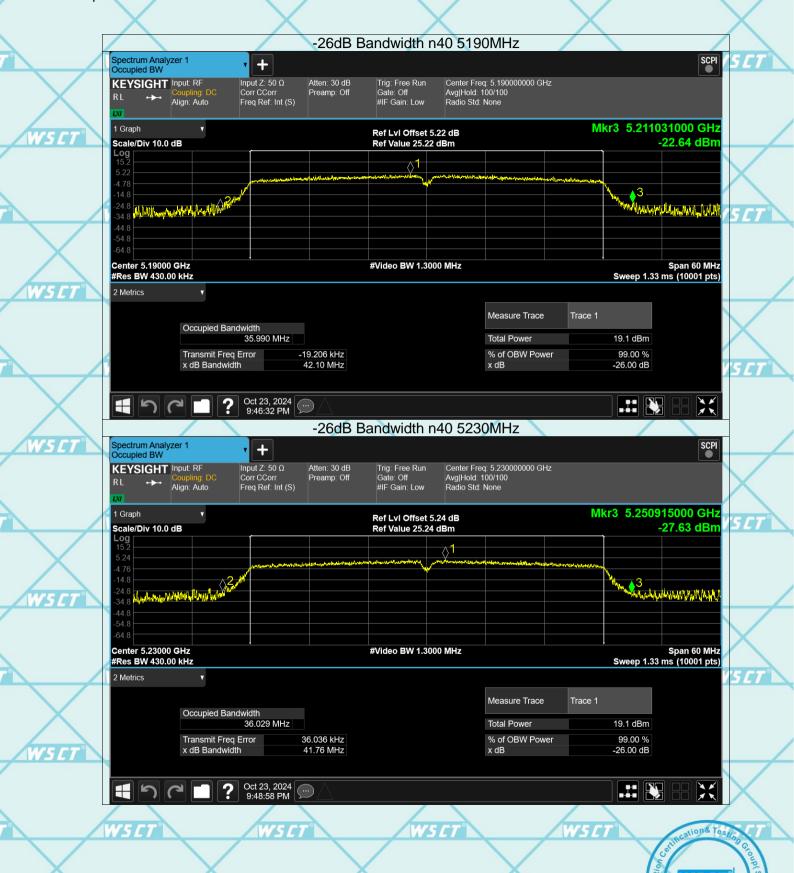
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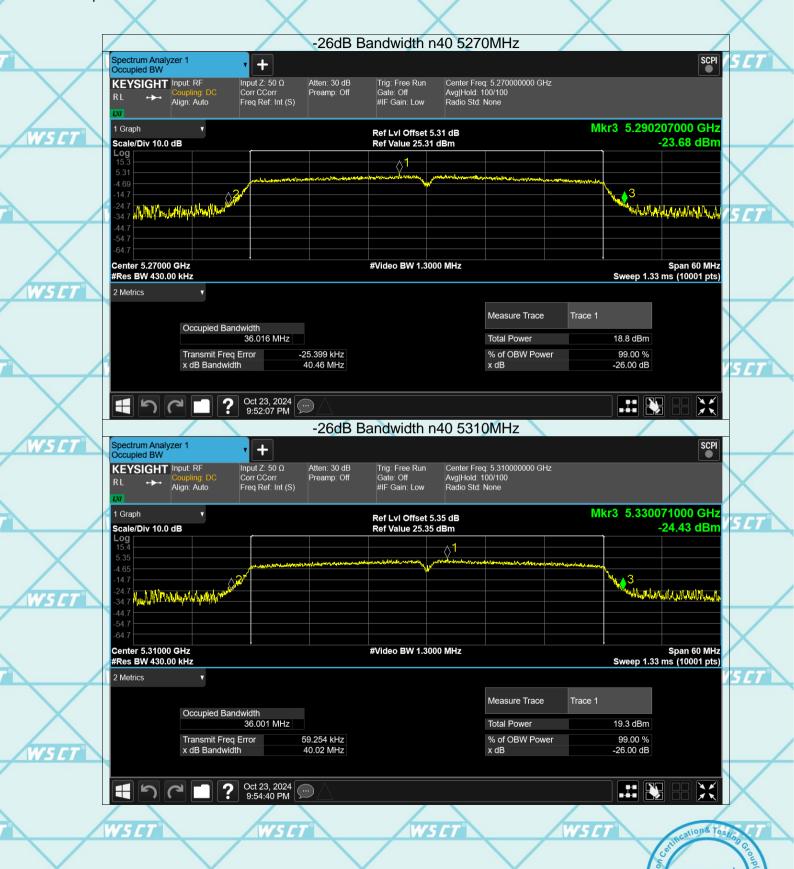
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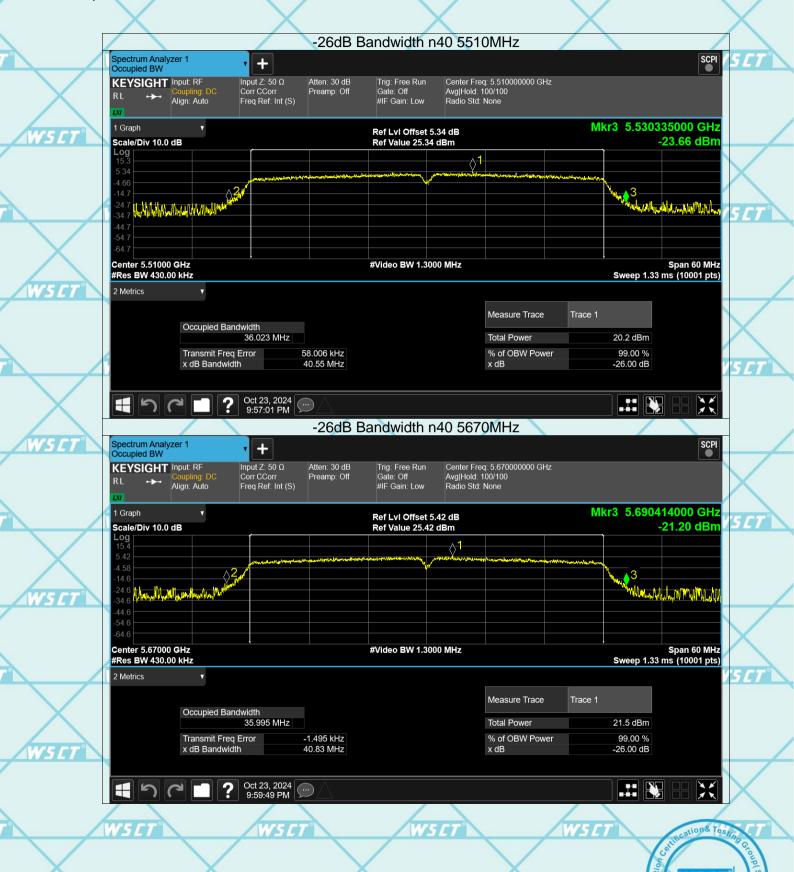
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World Standard Zation Certification& Testing Group(Shenzhen) Co.,Ltd







Report No.: WSCT-ANAB-R&E241000052A-Wi-Fi2



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