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TEST REPORT

FCC ID: 2ADYY-T16MA

Product: Laptop Computer

Model No.: T16MA

Trade Mark: TECNO

Report No.: WSCT-A2LA-R&E240300013A-LE

Issued Date: 16 April 2024

Issued for:

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

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd.
Building A-B, Baoshi Science & Technology Park, Baoshi Road,
Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-26996192 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.



World Standardization Certification (1650n)

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Report No.: WSCT-A2LA-R&E240300013A-LE 1. Test Certification

Product: Laptop Computer

Model No.: T16MA

Trade Mark: TECNO

Applicant: TECNO MOBILE LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer: TECNO MOBILE LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 02 April 2024 to 16 April 2024

Applicable FCC CFR Title 47 Part 15 Subpart C Section 15.247

Standards: KDB 558074 D01 DTS Meas Guidance v04

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:

(Chen Xu)

Approved By:

(Liu Fuxin)

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2. Test Result Summary

			C 1 40 T 40 D01
7	Requirement	CFR 47 Section	Result
	Antenna requirement	§15.203/§15.247 (c)	PASS
0	AC Power Line Conducted Emission	§15.207	PASS
	Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
1	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
-	Power Spectral Density	§15.247 (e)	PASS
	Band Edge	1§5.2 <mark>47(d)</mark> §2.1051, §2.1057	PASS
	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

Note:

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- 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:	Laptop Computer
Model No.:	T16MA
Trade Mark:	TECNO
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	2.40dBi
	Adapter1: TCW-A61S-65W
NVS 9	Input: 100-240V~50/60Hz 1.5A Max Output:PD:5V==3A 9V==3A 12V==3A
Operating Voltage:	Output:PD:5V==-3A 9V==-3A 12V==-3A 15V==-3A 20V==-3.25A PPS:3.3-11V==-5A Max Rechargeable Li-ion Battery: 528282-3S1P Rated Voltage: 11.61V
Operating Voltage:	Output:PD:5V==3A 9V==3A 12V==3A 15V==3A 20V==3.25A PPS:3.3-11V==5A Max Rechargeable Li-ion Battery: 528282-3S1P

Configuration differences

Cornigaration an	TCTCTTCCS		
Configuration/ Processor	Camera	LCD	Touchpad
T16MA (i5)	CK2B2B	P160NH41P-R4	AMR13489-PCT1336U-8-240116
T16MA (i7)	KANC792	GY160WUXGM-N33-B	SP1503T_V10

Note: The prototypes of both configurations have been tested, and the T16MA (i7) has the worst test result, which is the main test model reported

Operation Frequency each of channel

operation reduction of charmer									
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency		
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz		
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz		
8 2418MHz 18 2438MHz 28 2458MHz 38 24							2478MHz		
9 2420MHz 19 2440MHz 29 2460MHz 39 248									
Remark:	Remark: Channel 0, 19 & 39 have been tested.								

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4. Genera Information

4.1. Test environment and mode

Operating Environment:							
Temperature:	25.0 °C						
Humidity:	56 % RH						
Atmospheric Pressure:	1010 mbar						
Test Mode:							
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.						

The sample was placed (0.1m 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.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name	
Adapter	TCW-A61S-65W	1	1	TECNO	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. 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.



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5. Facilities and Accreditations

5.1. Facilities

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

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

5.2. ACCREDITATIONS

CNAS - Registration Number: L3732

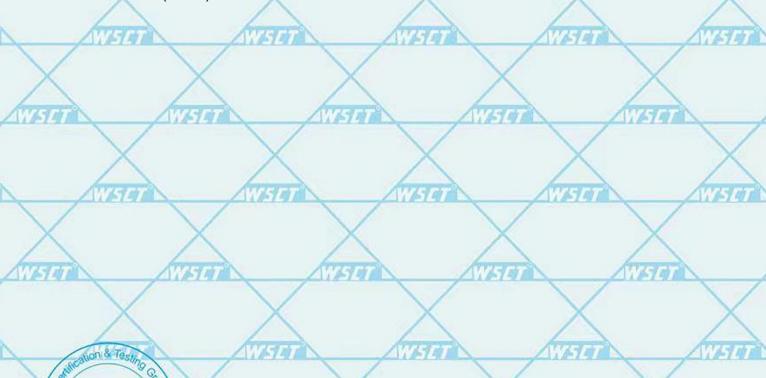
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

FCC - Designation Number: CN1303

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

A2LA - Certificate Number: 5768.01

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



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5.3. Measurement Uncertainty

The reported uncertainty of measurement y ± 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 %.

	COTITICO	X	
2	No.	Item	MU
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3775	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
1	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature	±0.5°C
	7 X	Humidity	±2.0%



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5.4.MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
Test software		EZ-EMC	CON-03A	1	2144
Test software	V	MTS8310		X	-
EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024
LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024
Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024
GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024
Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024
Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024
9*6*6 Anechoic	- X	X		11/05/2023	11/04/2024
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	-	11/05/2023	11/04/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024
System-Controller	ccs	N/A	N/A	N.C.R	N.C.R
Turn Table	ccs	N/A	N/A	N.C.R	N.C.R
Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA300 0		11/05/2023	11/04/2024
Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024
Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024
Power sensor	Anritsu	MX248XD		11/05/2023	11/04/2024
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024

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6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

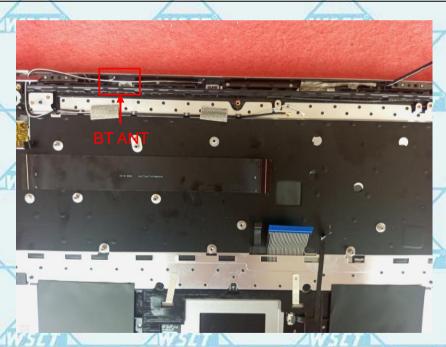
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 Bluetooth antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is 2.40dBi.





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6.2. Conducted Emission

6.2.1. Test Specification

.2.1. Test Specification		
Test Requirement:	FCC Part15 C Section 15.207	
Test Method:	ANSI C63.10:2014	WASIET
Frequency Range:	150 kHz to 30 MHz	×
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time	e=auto
Limits:	Frequency range (MHz) Quasi-peak 0.15-0.5 66 to 56* 0.5-5 56 5-30 60	(dBuV)
X	Reference Plane	
NI TO ATT	40cm 10cm LISN Fi	Iter — AC power
Test Setup:	Test table/Insulation plane Remark E.U.T. Equipment Under Test	
AVISTA	LISN: Line Impedence Stabilization Network Test table height=0.8m	
Test Mode:	Charging + Transmitting Mode	
1755101	 The E.U.T is connected to an adap impedance stabilization network provides a 50ohm/50uH coupling ir measuring equipment. The peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to an adaptive stabilization of the peripheral devices are also connected to a adaptive stabilization of the peripheral devices are also connected to a adaptive stabilization of the peripheral devices are also connected to a adaptive stabilization of the peripheral devices are also connected to a adaptive stabilization of the adaptive stabilization of the peripheral devices	(L.I.S.N.). This mpedance for the nected to the main
Test Procedure:	power through a LISN that provide coupling impedance with 50ohm ter refer to the block diagram of the photographs). 3. Both sides of A.C. line are check	mination. (Please test setup and
WSIII	conducted interference. In order to the emission, the relative positions of equation the interface cables must be chan ANSI C63.10:2014 on conducted meaning and the interface cables.	ind the maximum uipment and all of ged according to
Test Result:	PASS	774
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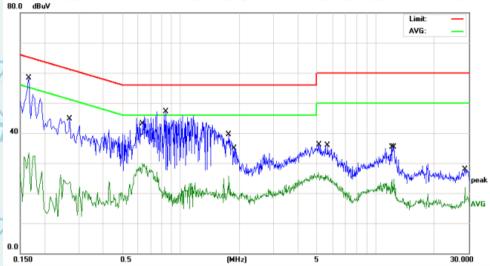
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6.2.2. Test data (worst case)

The worst mode is BLE 2M

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
	1	*	0.1660	47.96	10.41	58.37	65.15	-6.78	QP
	2		0.1660	23.04	10.41	33.45	55.15	-21.70	AVG
/	3		0.2700	34.32	10.42	44.74	61.12	-16.38	QP
	4		0.6380	19.41	10.48	29.89	46.00	-16.11	AVG
5	5		0.8380	36.67	10.50	47.17	56.00	-8.83	QP
4	6		1.7700	15.05	10.63	25.68	46.00	-20.32	AVG
	7		1.8820	24.26	10.64	34.90	56.00	-21.10	QP
	8		5.0660	16.21	10.69	26.90	50.00	-23.10	AVG
9	9		5.6700	25.20	10.70	35.90	60.00	-24.10	QP
	10		12.1580	13.53	10.91	24.44	50.00	-25.56	AVG
1	11		12.3979	24.37	10.92	35.29	60.00	-24.71	QP
Ż	12		28.6980	11.03	10.97	22.00	50.00	-28.00	AVG

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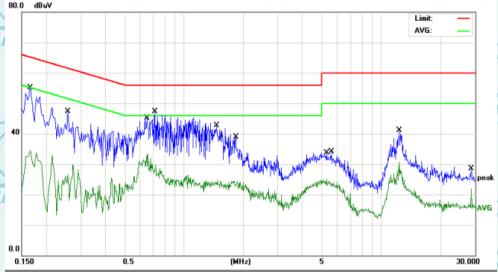


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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

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/	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
T	1		0.1660	44.64	10.41	55.05	65.15	-10.10	QP
	2		0.1660	24.06	10.41	34.47	55.15	-20.68	AVG
ĺ	3		0.2580	36.96	10.42	47.38	61.49	-14.11	QP
	4		0.6540	22.77	10.48	33.25	46.00	-12.75	AVG
5	5	*	0.7140	36.81	10.49	47.30	56.00	-8.70	QP
	6		1.4819	14.10	10.58	24.68	46.00	-21.32	AVG
	7		1.8340	28.36	10.64	39.00	56.00	-17.00	QP
Ż	8		5.2940	14.34	10.70	25.04	50.00	-24.96	AVG
	9		5.6020	23.50	10.70	34.20	60.00	-25.80	QP
ľ	10		12.3860	30.15	10.92	41.07	60.00	-18.93	QP
	11		12.3860	19.74	10.92	30.66	50.00	-19.34	AVG
1	12		28.7020	10.99	10.97	21.96	50.00	-28.04	AVG

Note1:

Freq. = Emission frequency in MHz

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

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

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

Limit (dBµV) = Limit stated in standard

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

Q.P. =Quasi-Peak AVG =average

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

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6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

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6.3.2. Test Data

,	BLE 1M				
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result	
	Lowest 7.07		30.00	PASS	
	Middle	5.70	30.00	PASS	
	Highest	5.71	30.00	PASS	

ATTEN	ATT TO STATE OF THE STATE OF TH	ATT			
BLE 2M					
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
Lowest	7.13	30.00	PASS		
Middle	5.74	30.00	PASS		
Highest	5.75	30.00	PASS		

Test plots as follows:

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	$\langle \ \rangle$	THE AVE			17474
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	191	$\langle \ \rangle$	W.		IV-5147
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6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
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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Signal Comments

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6.4.2. Test data

BL	F	1	M	r
	-		1	٠,

-6	114-1-1-1	2 1 2 2 2 2 2		The second secon	
	Toot obannal	6dB Emission Bandwidth (kHz)			
	Test channel	BT LE mode	Limit	Result	
	Lowest	0.637	>500k	11694	
	Middle	0.655	>500k	PASS	
	Highest	0.669	>500k		

BLE 2M

Test channel	6dB Emission I	Bandwidth (kHz)			
rest channel	BT LE mode	Limit	Result		
Lowest	1.092	>500k	1111111		
Middle	1.091	>500k	PASS		
Highest	1.112	>500k	-		

Test plots as follows:

N/FIGT	WHITE	WSI	WSI	WSI	
	5147	$\langle \ \rangle$			7518
NVF14	NV-5101	WESTER	N/5191	W/5197	
	STOP AVE	$\langle \ \rangle$			1519
AVE 14 I	WETER	N/F141	WATER	77579	
	\times				V-14.
diffication &	S. C.				-

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Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

1.0500 MHz

-10.128 kHz

654.5 kHz

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Total Power

% of OBW Power

11.8 dBm

99.00 % -6.00 dB









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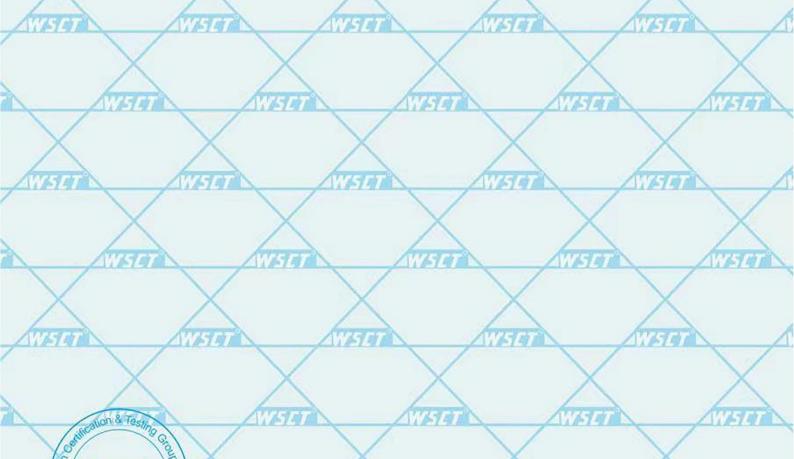
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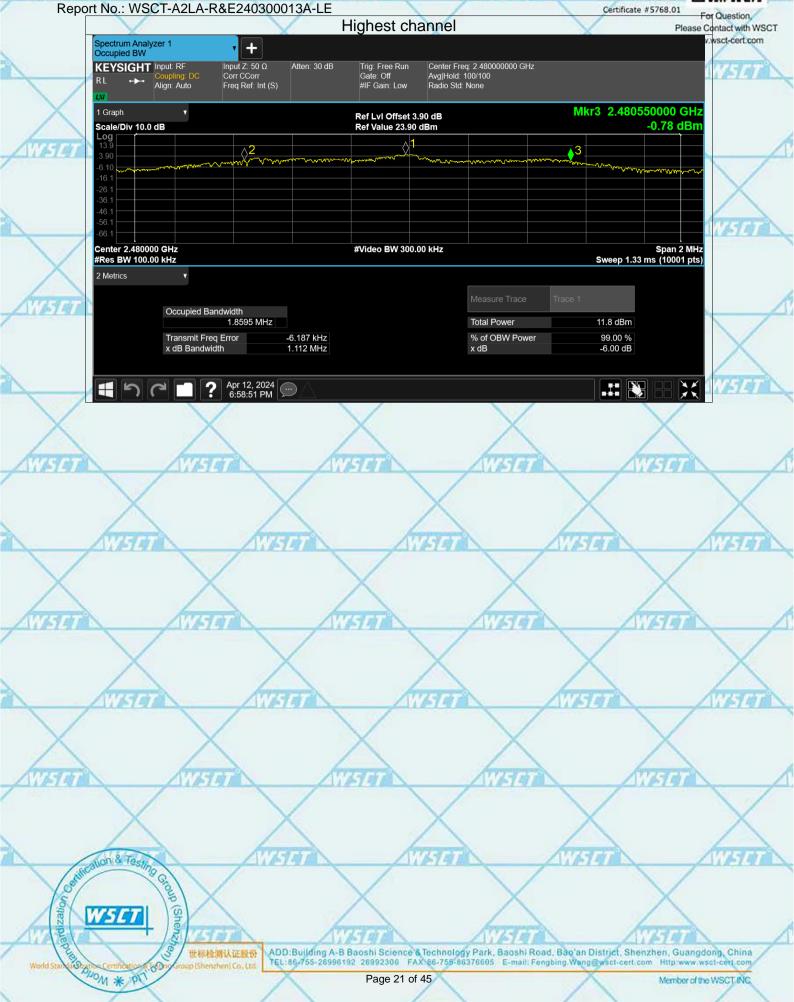
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6.5. Power Spectral Density

6.5.1. Test Specification

Z11674		Ü
Test Requirement:	FCC Part15 C Section 15.247 (e)	
Test Method:	KDB558074	
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.	5
Test Setup:	Spectrum Analyzer EUT	
Test Mode:	Refer to item 4.1	
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of 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. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 	
Test Result:	PASS	
	Test Method: Limit: Test Setup: Test Mode: Test Procedure:	Test Method: The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission. Test Setup: Eut

6.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018	
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018	
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.5.3. Test data

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	Test channel	Power Spectral Density (dBm/3kHz)			
rest channel		BLE 1M	Limit	Result	
Lowest		-7.95	8 dBm/3kHz		
	Middle	-9.69	8 dBm/3kHz	PASS	
	Highest	-9.99	8 dBm/3kHz		

		Power Spectral D	ensity (dBm/3kl	Hz)
,	Test channel	BLE 2M	Limit	Result
	Lowest	-10.47	8 dBm/3kHz	
Ì	Middle	-12.08	8 dBm/3kHz	PASS
	Highest	-12.05	8 dBm/3kHz	

Test plots as follows:

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	\times			WE-TO	
X	W/5181	X	W57491	11/4-1-9-1	
WSIII	\times	WEILT		STORE AVESTOR	×
WETET	TVF-149 I	N/SI 91	WESTER	116-100	
incation &	\times			STOP MYSTO	7

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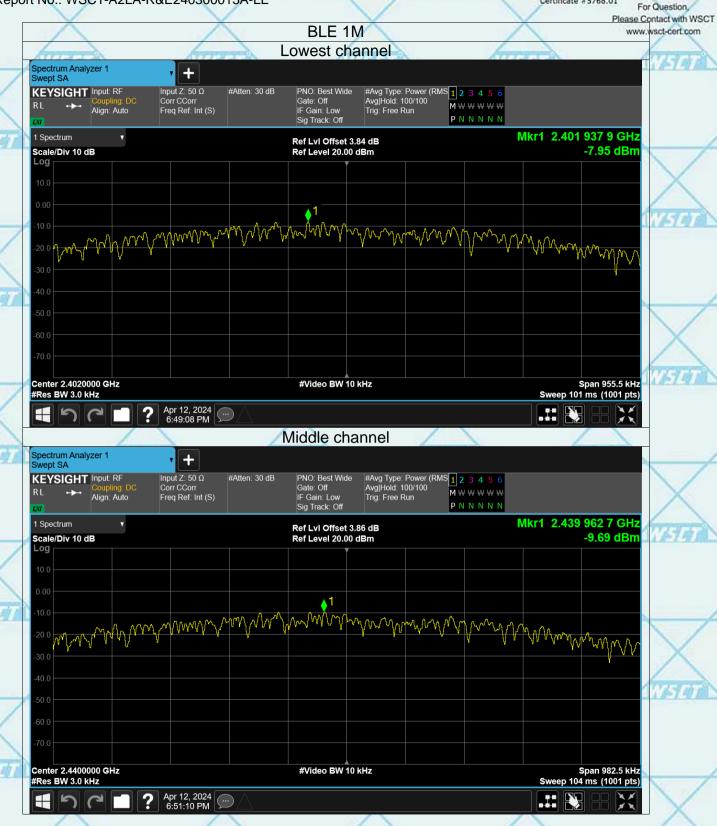
























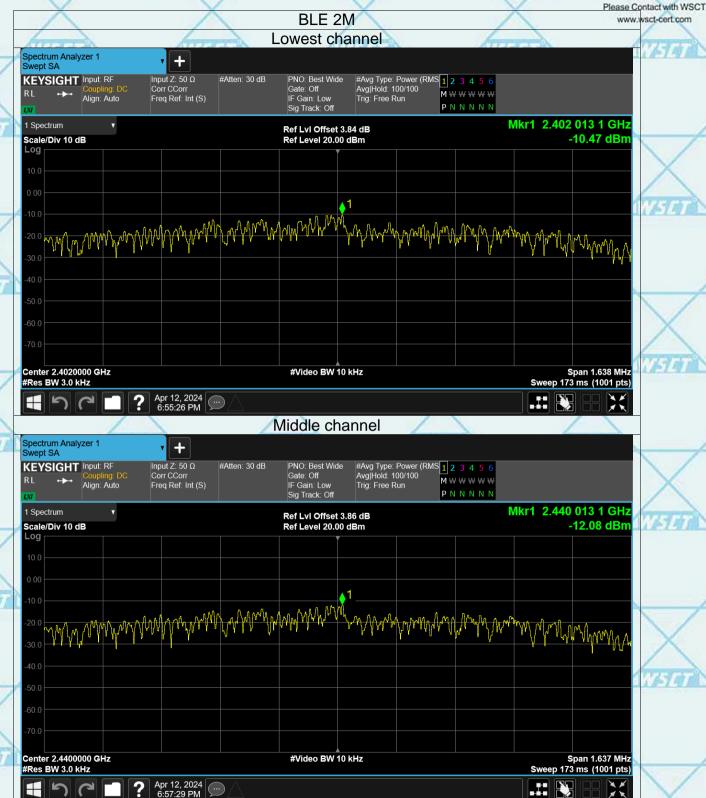
















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6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification FCC Part15 C Section 15.247 (d) **Test Requirement:** KDB558074 **Test Method:** 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 Limit: 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: **EUT** Spectrum Analyzer Test Mode: Refer to item 4.1

was compensated to the results for each measurement.

2. Set to the maximum power setting and enable the EUT transmit continuously.

3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. 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).

 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss

- 4. 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



Test Procedure:



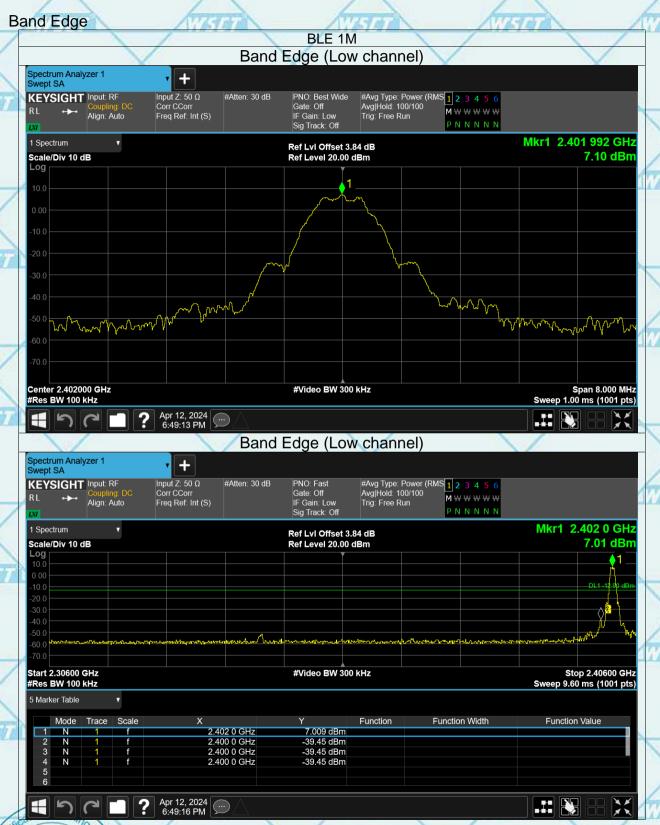




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6.6.2. Test Data





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Report No.: WSCT-A2LA-R&E240300013A-LE Certificate #5768.01 For Question, Conducted RF Spurious Emission Please Contact with WSCT BLE 1M www.wsct-cert.com Low channel Spectrum Analyzer 1 Swept SA Input Z: 50 Ω #Atten: 30 dB PNO: Best Wide KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low $M \leftrightarrow W \leftrightarrow W \leftrightarrow W$ Align: Auto PNNNNN Mkr1 2.401 989 60 GHz 1 Spectrum Ref LvI Offset 3.84 dB Ref Level 20.00 dBm 6.96 dBm Scale/Div 10 dB Center 2.4020000 GHz #Video BW 300 kHz Span 1.500 MHz #Res BW 100 kHz Sweep 2.00 ms (30001 pts) Apr 12, 2024 6:49:23 PM Low channel Spectrum Analyzer 1 Swept SA #Avg Type: Power (RMS 1 2 3 4 5 6 Avg|Hold: 10/10 Trig: Free Run M W W W W W Input Z: 50 Ω KEYSIGHT Input: RF #Atten: 30 dB PNO: Fast Gate: Off IF Gain: Low Corr CCorr Freq Ref: Int (S) Align: Auto PNNNN Sig Track: Off Mkr1 2.401 7 GHz 1 Spectrum Ref LvI Offset 3.84 dB Ref Level 20.00 dBm 6.47 dBm Scale/Div 10 dB DL1 -13.04 dE Start 30 MHz #Res BW 100 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) #Video BW 300 kHz 5 Marker Table Mode Trace Scale Function Function Width Function Value 2.401 7 GHz 25.741 2 GHz 4.914 6 GHz 6.473 dBm N N -47.29 dBm -51.91 dBm 7.284 5 GHz 9.755 1 GHz -53.08 dBm -52.15 dBm N Apr 12, 2024



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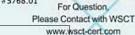






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Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com BLE 2M Low channel Spectrum Analyzer 1 Swept SA Input Z: 50 Ω #Atten: 30 dB PNO: Best Wide KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low $M \leftrightarrow W \leftrightarrow W \leftrightarrow W$ Align: Auto Mkr1 2.401 988 5 GHz 1 Spectrum Ref LvI Offset 3.84 dB Ref Level 20.00 dBm 7.04 dBm Scale/Div 10 dB Center 2.402000 GHz #Video BW 300 kHz Span 3.000 MHz #Res BW 100 kHz Sweep 2.00 ms (30001 pts) Apr 12, 2024 6:55:41 PM Low channel Spectrum Analyzer 1 Swept SA + #Avg Type: Power (RMS 1 2 3 4 5 6 Avg|Hold: 10/10 Trig: Free Run M W W W W W Input Z: 50 Ω KEYSIGHT Input: RF #Atten: 30 dB PNO: Fast Gate: Off IF Gain: Low Corr CCorr Freq Ref: Int (S) Align: Auto PNNNNN Sig Track: Off Mkr1 2.401 7 GHz 1 Spectrum Ref LvI Offset 3.84 dB Ref Level 20.00 dBm 5.89 dBm Scale/Div 10 dB DL1-12.96 dB δ3 **∆**5 Start 30 MHz #Res BW 100 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) #Video BW 300 kHz 5 Marker Table Mode Trace Scale Function Function Width Function Value 5.890 dBm -46.55 dBm -52.95 dBm 2.401 7 GHz 25.932 7 GHz 4.680 8 GHz N



N

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-52.58 dBm -53.35 dBm

7.150 4 GHz 9.445 4 GHz

Apr 12, 2024









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6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

7.1. Test Specification			1				
Test Requirement:	FCC Part15	C Section	15.209		X		
Test Method:	ANSI C63.10	0:2014	17770	1	11474		
Frequency Range:	9 kHz to 25 (GHz					
Measurement Distance:	3 m	3 m					
Antenna Polarization:	Horizontal &						
Operation mode:	Refer to item	4.1					
	Frequency	Detector	RBW	VBW	Remark		
WSI	9kHz- 150kHz	Quasi-peal	200Hz	1kHz	Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-peal	9kHz	30kHz	Quasi-peak Value		
X	30MHz-1GHz	Quasi-peal	< 100KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
AVETE ATTE	ABOVE TOTIZ	Peak	1MHz	10Hz	Average Value		
			Field Stre	ength	Measurement		
X	Frequer	icy	(microvolts	_	Distance (meters)		
	0.009-0.4	490	2400/F(I	KHz)	300		
WSTAT	0.490-1.7	705	24000/F((KHz)	30		
	1.705-3		30		30		
X	30-88	_	100	- 7	3		
	88-216		150		3		
Limit:	216-96	A 1 1 1 1 1 1 1 1 1 1	200	J1777 J 18	3		
OLE IN COLOR	Above 9	60	500	THE !	3		
			$\overline{}$	Magaurar	mant		
	Frequency		d Strength	Measurer Distance			
freeze a	requency	(micro	ovolts/meter)	(meters			
17574	/11F77M	-	500	3	Average		
	Above 1GHz	2	5000	3	Peak		
	En un aliata al	X	- ll 00	NAL I-			
Arras Arras	For radiated	emissions	s below 30	JIVIHZ			
AWS		istance = 3m			Computer		
X	+	 .					
		1) -	Pre -	Amplifier		
Test setup:	FUT		$ \uparrow $				
	EUT						
X	(Turn table		-			
		<u> </u>		F	Receiver		
Mon & Tests	F.	Groun	d Plane	L			
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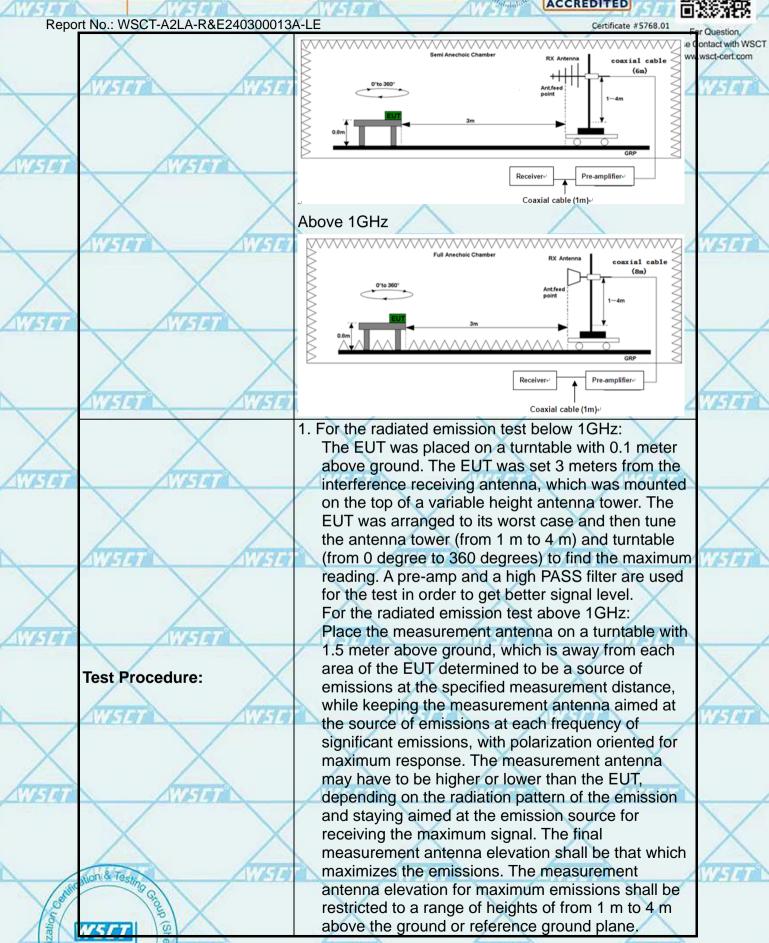
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30MHz to 1GHz









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W5147	W/5/4	2. Corrected Reading: Antenna Factor + Cable Loss Read Level - Preamp Factor = Level 3. 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	Question, ntact with WS/ sct-cert.com
NYFIGT	WSET	level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.	
X	X	4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured;	X
114741	11/14	(2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW;	479
NEGT	NV514T	Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f □ 1 GHz for peak measurement.	
		For average measurement: VBW = 10 Hz, when	/
X	X	duty cycle is no less than 98 percent. VBW ≥ 1/T,	X
WESTER	1777	when duty cycle is less than 98 percent where T is the minimum transmission duration over which the	WETET
X	X	transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.	
Test mod	de:	Refer to section 4.1 for details	
Test resu	ults:	PASS	1
Reading level Corr. Factor (Emission frequency in MH. I (dBµV) = Receiver reading dB) = Attenuation factor + 0	ng Cable loss	X STEP
Level (dBµV) Limit (dBµV) :	= Řeading level (dBμV) + (= Limit stated in standard = Level (dΒμV) – Limits (dΒ	Corr. Factor (dB)	
			V

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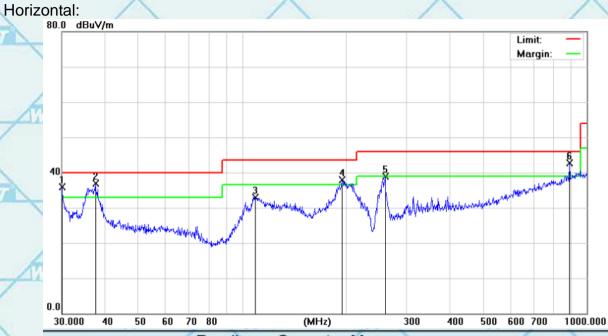
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6.7.2. Test Data(worst case)

Please refer to following diagram for individual

The worst mode is BLE 2M

Below 1GHz



7	No.	Mk.	Freq.	Reading	Correct Factor	Measure- ment	Limit	Over	140
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
4	1	!	30.0000	37.57	-1.73	35.84	40.00	-4.16	QP
	2	X	37.5479	37.83	-0.86	36.97	40.00	-3.03	QP
	3		109.0286	36.06	-3.16	32.90	43.50	-10.60	QP
	4	!	195.1365	41.67	-3.81	37.86	43.50	-5.64	QP
7	5	1	260.1444	40.36	-1.42	38.94	46.00	-7.06	QP
	6	!	890.7278	29.79	12.87	42.66	46.00	-3.34	QP

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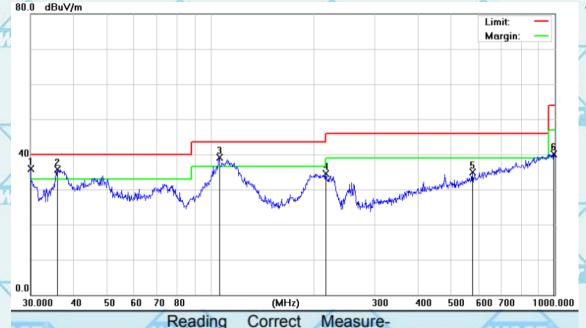


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No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE
4		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	30.0000	37.62	-1.73	35.89	40.00	-4.11	QP
2		35.8746	36.94	-1.16	35.78	40.00	-4.22	QP
3	!	106.0126	42.40	-3.37	39.03	43.50	-4.47	QP
4		216.0240	37.62	-3.07	34.55	46.00	-11.45	QP
7 5	1	576.6443	27.73	7.08	34.81	46.00	-11.19	QP
6		993.0114	25.66	14.45	40.11	54.00	-13.89	QP

Note1:

Freq. = Emission frequency in MHz

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

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

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

Limit (dBµV) = Limit stated in standard

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

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Above 1GHz

	Eroa		Low channel: 2402MHz					
4	Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)
		H/V	PK	AV	PK	AV	PK	AV
	4804	V	58.75	40.03	74	54	-15.25	-13.97
ķ.	7206	V	59.17	39.36	74	54	-14.83	-14.64
-	4804	TETTE	58.44	39.21	74	54	-15.56	-14.79
	7206	Н	59.13	40.13	74	54	-14.87	-13.87

	L" o «		Middle channel: 2440MHz						
2	Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)	
	(IVITZ)	H/V	PK	AV	PK	AV	PK	AV	
	4880	V	58.53	41.19	74	54	-15.47	-12.81	
	7320	V	58.81	39.08	74	54	-15.19	-14.92	
1	4880	WSHT	58.88	39.73	74	54	-15.12	-14.27	
	7320	Н	59.85	40.85	74	54	-14.15	-13.15	

	~		V		V		V	
	Eroa			High cha	nnel: 2480) MHz		
	Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)
7	(IVITZ)	H/V	PK	AV	PK	AV	PK	AV
	4960	V	60.44	39.35	74	54	-13.56	-14.65
	7440	V	58.35	40.29	74	54	-15.65	-13.71
1	4960		58.98	39.20	74	54	-15.02	-14.80
L	7440		59.44	40.44	74	54	-14.56	-13.56

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







Report No.: WSCT-A2LA-R&E240300013A-LE

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com

Restricted Bands Requirements

Test result for GFSK Mode (the worst case)

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/	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
\	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
7	1	ATATOR		Low Cha	nnel	17240	2	11/25
_	2390	62.12	-8.76	53.36	74	20.64	H	PK
	2390	55.29	-8.76	46.53	54	7.47	нХ	AV
	2390	63.73	-8.73	55.00	74	19.00	V	PK
	2390	54.20	-8.73	45.47	54	8.53	V	AV
1				High Cha	nnel			
1	2483.5	60.78	-8.76	52.02	74	21.98	Н	PK
ğ	2483.5	56.02	-8.76	47.26	54	6.74	Н	AV / 5
	2483.5	59.87	-8.73	51.14	74	22.86	V	PK
	2483.5	56.07	-8.73	47.34	54	6.66	V	AV

11-19	*****END OF REPORT*	***
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