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**TEST REPORT** 

FCC ID: 2ADYY-K16SDA **Product: Laptop Computer** Model No.: K16SDA **Trade Mark: TECNO** Report No.: WSCT-A2LA-R&E240300014A-15B Issued Date: 06 June 2024

Issued for:

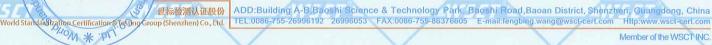
**TECNO MOBILE LIMITED** FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. Building A-B, Baoshi Science & Technology Park, Baoshi Read, Bao'an District, Shenzhen, Guangdong, China TEL: +86-755-26996192 145/01

FAX: +86-755-86376605

Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification, approval, or any agency of the U.S. Government.





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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:	Wary Xiary (Wang Xiang)	Checked By:	Mo Perry	U1 a Testing G
Approved By:	Linfuen (Liu Fuxin)	Date: 06	June 2014	WSET STATE
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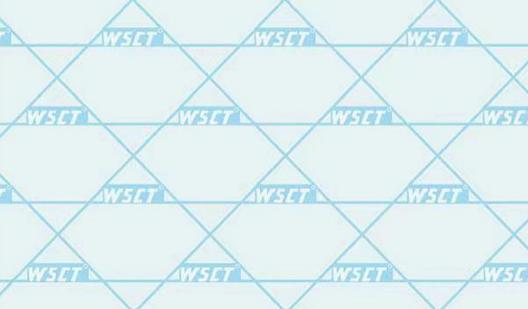






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	2. GENER	RAI DESCRIPTION OF FUT	Question, ntact with WSCT sct-cert.com
	Equipment Type:	Laptop Computer	THE
	Test Model:	K16SDA	012
1	Trade Mark	TECNO	
14	Rechargeable	Model: K16S Nominal Voltage: 11.55V Rated Capacity: 6060mAh Rated nergy: 70.00Wh Limited Charge Voltage: 13.2V	HI
<	Adapter:	Adapter: E065-1R200325VU Input: 100-240V~,50/60Hz,1.5A Output: 20.0V3.25A	
Li	Remark:	N/A. WSGT WSG	



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# 3. Test Result Summary

	AULARA AULAR	TA ATTACA	AUSER /	WSET
7	Requirement	CFR 47 Section	Result	
	CONDUCTED EMISSION	§15.107	PASS	
2	RADIATED EMISSION	4WSCI §15.109 4WSCI	PASS	-

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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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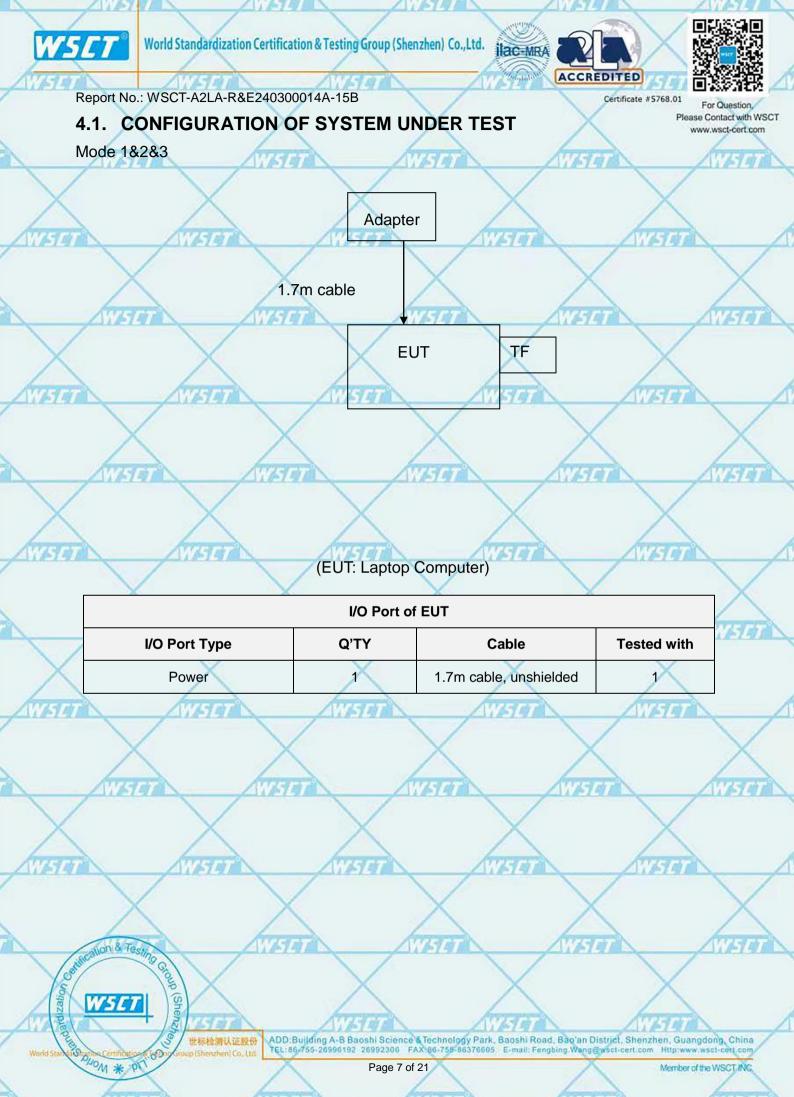
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# 4. TEST METHODOLOGY

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.

oraida					
/	Pretest Mode		Description		
ATT ATT	Mode 1		ideo Recording	1947	WISTET
	Model 2		Video Playing		
X	Mode 3	Хт	F Card Playing	X	
WEIT	WISHT	WATAT	WEIT	WISH	
	X	X	X	X	X
					And
	AV7	7.77	HALL N	ISIT	AVETA
$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	
AWSET	AWSET	AVISET	WSET	AWISICI	
$\langle \rangle$	$\langle \rangle$		$\checkmark$	$\checkmark$	$\sim$
/	$\langle \rangle$		$\wedge$	$\wedge$	$\wedge$
A ATE			ATT AT	ISTAT	ATTEN A
X	X	X	X	X	
TATE OF	AVISIA	WEINE	WESTER	AVATA I	
/ IFIA					
	$\times$	X	X	$\times$	$\times$
	$ \ge $	$\Delta$ 2	$\Delta$ 2	$\Delta$	
	ICTW	SET A	ISET M	ISET	AWSET
$\sim$		$\sim$	$\sim$	$\sim$	
$\wedge$	$\wedge$	$\wedge$	$\wedge$	$\sim$	
WISET	WISET	WISHT	WISET	AVIS AT	
/	X	X	X	X	X
1.85		93	HALL A	15157	WISTO
atilicationay	esting Q				Automa
5	) Off	X	X	X	
Tez WSC	She		home		2
	3 世标检测认证数份 AI	DD:Building A-B Baoshi Science &	Technology Park, Baoshi Road, Bao	an District, Shenzhen, Gua	ingdong, China
World Starkin Program Common	tone (Sono aroup (Shenzhen) Co. Ltd		Technology Park, Baoshi Road, Bac 66-755-86376605 E-mail: Fengbing V		
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# 4.2. 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	SSD	QunLian	1TB	X	/	

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- (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 <sup>C</sup>Length.
  - column.

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# 5. MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	ET
2	Test software		EZ-EMC	CON-03A		×	
1	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
2	LISN 4454	AFJ	567 LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mastic	AN3016	04/10040	11/05/2023	11/04/2024	/
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	1
	System Controller	WCT7	SC100	- /	11/05/2023	11/04/2024	ET
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
5	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
7	Horn Antenna	SCHWARZBECK	9120D	1141	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWAREBECK	VULB9163	9163/340	11/05/2023	11/04/2024	1
	Pre Amplifier	H.R.	HP8447E	2945A02715	11/05/2023	11/04/2024	X
	9*6*6 Anechoic	AVEST	AVISION		11/05/2023	11/04/2024	74
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## 6. Facilities and Accreditations

## 6.1. Facilities

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

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

# 6.2. ACCREDITATIONS

#### **CNAS - Registration Number: L3732**

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

#### FCC - Designation Number: CN1303

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

#### A2LA - Certificate Number: 5768.01

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

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### 6.3. Measurement Uncertainty

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

	No.	Item	MU	
	1	Conducted Emission Test	±3.2dB	
	2	RF power, conducted	±0.16dB	X
	3	Spurious emissions, conducted	±0.21dB	114
7	4	All emissions, radiated(<1GHz)	±4.7dB	
	5	All emissions, radiated(>1GHz)	±4.7dB	
2	6	Temperature ////////////////////////////////////	±0.5°C/567	
	7	Humidity	±2.0%	X

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## 7. EMC EMISSION TEST

# 7.1. CONDUCTED EMISSION MEASUREMENT

## 7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

		The self and self			ALL AND ANY ANY	
FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard	
	Quasi-peak	Average	rage Quasi-peak Average		Standard	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC	
0.50 -5.0	73.00	60.00	56.00	46.00	FCC	
5.0 -30.0	73.00	60.00	60.00	50.00	FCC	

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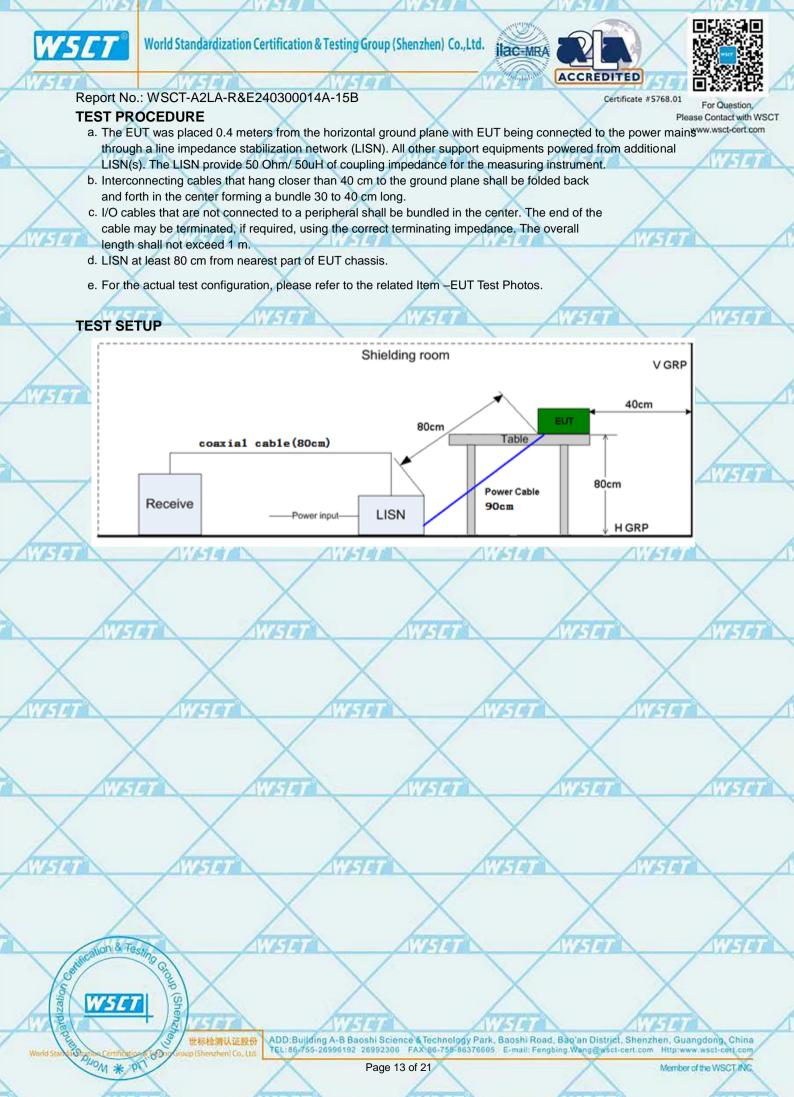
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- (1) The tighter limit applies at the band edges.
  - (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

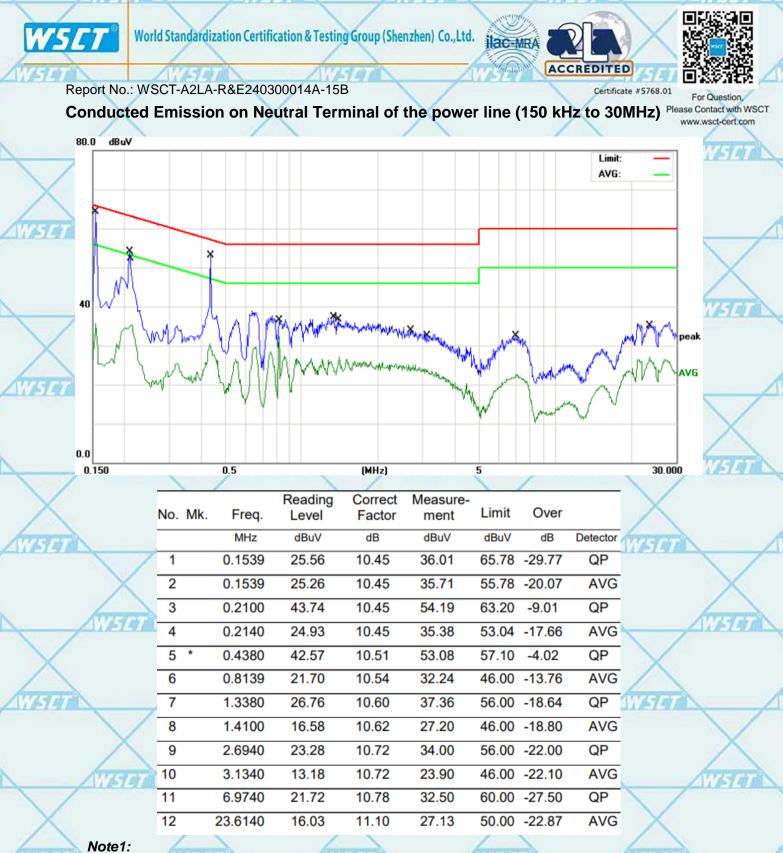
The following	table is the	setting of	the receiver

	• **	
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	1
IF Bandwidth	9 kHz	1
		/





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	7.1.2. 1	Test Re	esults	1			$\times$			$\boldsymbol{\times}$		ase Contact with WSCT www.wsct-cert.com
$\langle \cdot \rangle$	Temper				lative Hu	imidity	48%	<u> </u>		WSET		AWSET
$\sim$	Pressure	e í	1010	nPa Tes	st Mode		Adapte	er: Mod	e 3(the	e worst cas	se)	
And	Con	ducted	d Emi	ssion on	Line Te	rminal o	of the p	ower li	ne (15	50 kHz to	30MHz)	
	80.0 dBu\	/	8-1-91			61 6.6		20161			10-61	
										Limit: AVG:	_	X
												WISTO
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X												
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$\wedge$									V			
AWSET	0.0											
	0.150	0		0.5		(MHz)	V	5		V	30.000	$\sim$
	$\wedge$				Reading	Correct	Measure		Over			$\wedge$
N	AVED	7	No. M	k. Freq.	Level dBuV	Factor dB	dBuV	Limit dBuV	Over dB	Detector		ATTAIN
1		)	1	0.1900	38.08	10.45	48.53		-15.50	QP	1	
X			2	0.2100	25.14	10.45	35.59	53.20	-17.61	AVG	X	
AVIST A	X	K	3	0.5460	16.77	10.52	27.29	46.00	-18.71	AVG	WSE	
CHICINE I	1	1	4	0.6620	26.41	10.53	36.94		-19.06	QP		1/
	X		5 *	0.8139	21.07	10.54	31.61		-14.39	AVG		X
2	4	1	6 7	1.2860	23.81	10.60	34.41		-21.59	QP AVG		
	ATH		7 8	1.6260 7.5900	13.84 21.71	10.65	24.49 32.50		-21.51 -27.50	QP		AWSTOTA
X			9	15.5980	13.97	11.18	25.15		-24.85	AVG	X	
		1	10	20.2620	25.71	11.05	36.76		-23.24	QP		
AWSET	1	A	11	24.8900	18.51	11.12	29.63	50.00	-20.37	AVG	WEET	
	1	/	12	24.9619	27.90	11.12	39.02	60.00	-20.98	QP		$\bigvee$
							$\wedge$			$\wedge$		$\wedge$
	ation & Tes	lin	_	AVIST	5	1	WSET	2	1	WSET	-	AVISIT
Contin	Alloni & Teg	(See	1		/	/		1	/		1	
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Freq. = Emission frequency in MHz

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

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

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

 $Limit (dB\mu V) = Limit stated in standard$ 

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

Q.P. =Quasi-Peak AVG =average

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

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## 7.2. RADIATED EMISSION MEASUREMENT

## 7.2.1. Radiated Emission Limits

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequencies	Field Strength	Measurement Distance		
(MHz)	(micorvolts/meter)	(meters)		
0.009~0.490	2400/F(KHz)	300		
0.490~1.705	24000/F(KHz)	30		
1.705~30.0	30	30		
30~88	100	3		
88~216	150	3		
216~960	200	X 3 X		
Above 960	500	3		
ATT Internal	ATT THE R	TTTTT A		

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

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

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(1) The limit for radiated test was performed according to FCC PART 15B.

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

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

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





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#### TEST PROCEDURE

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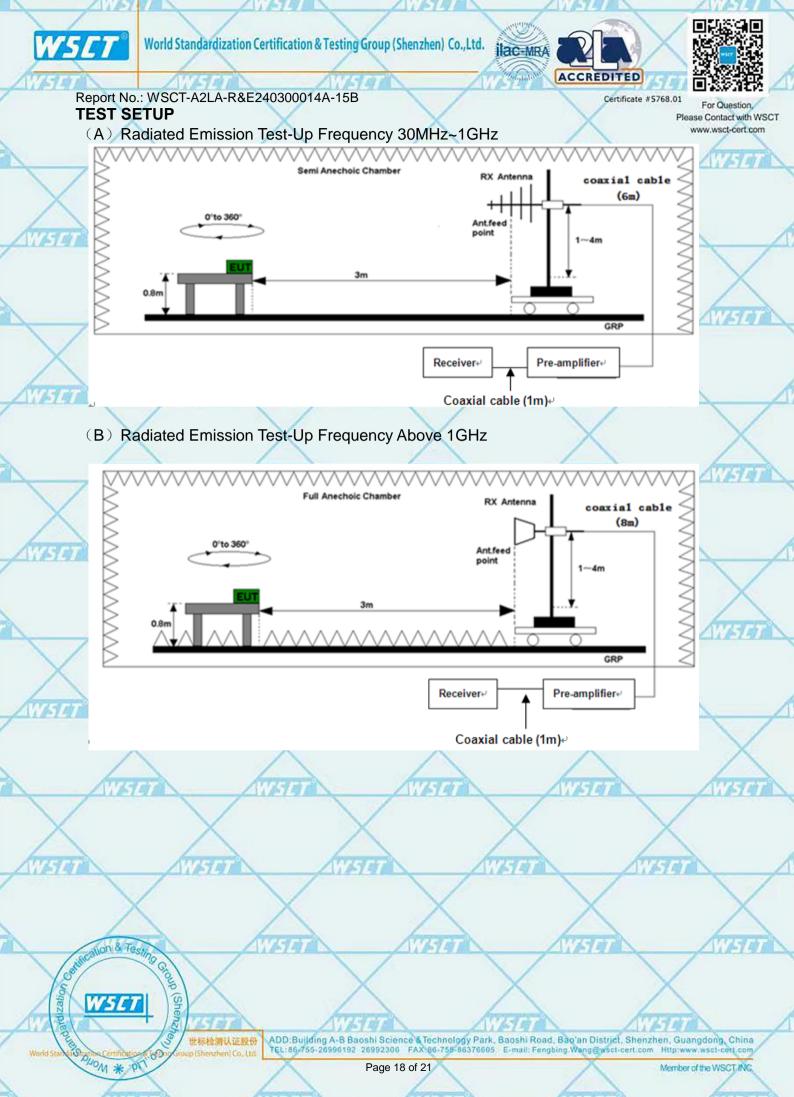
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- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For www.wsct-cert.com frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters 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.

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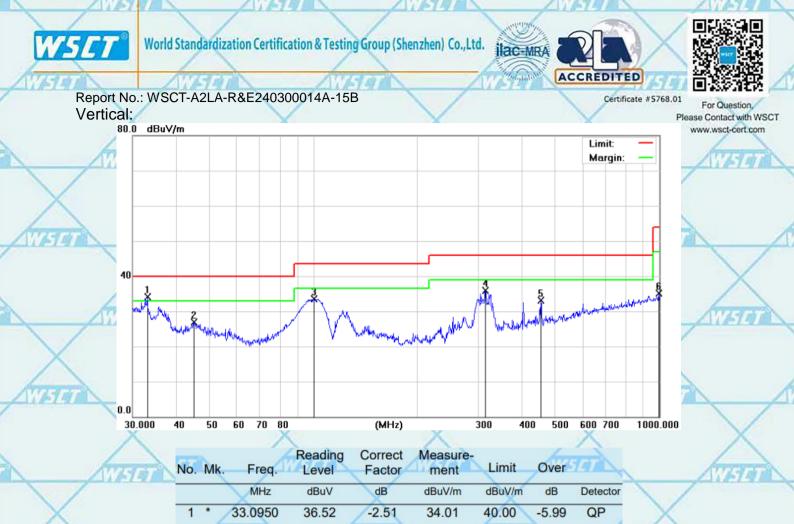




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Freq. = Emission frequency in MHz

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5

6

45.0583

100.2286

314.3765

454.3100

996,4996

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  $(dB\mu V)$  = Limit stated in standard Margin (dB) = Measurement  $(dB\mu V)$  – Limits  $(dB\mu V)$ 

28.80

39.25

37.99

31.97

26.48

-1.98

-5.68

-2.10

1.07

8.53

26.82

33.57

35.89

33.04

35.01

40.00

43.50

46.00

46.00

54.00

-13.18

-9.93

-10.11

-12.96

-18.99

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Report No.: WSCT-A2LA-R&E240300014A-15B **TEST RESULTS** Above 1GHz(1~26GHz) :( Adapter:Mode 3—worst case)

AULAN				AULIAN		Alland	1
Freq.	Ant.	Emission		Limit		Over(dB)	
(MHz)	Pol.	Level(dBuV)		3m(dBuV/m)		$\sim$	
	H/V	PK	AV	PK	AV	PK	AV
1246.68	V	60.72	40.06	74	54	-13.28	-13.94
2202.62	V	58.75	39.06	74	54	-15.25	-14.94
1763.75	H	58.05	39.87	74	54	-15.95	-14.13
2363.88	Н	59.37	40.37	74	54	-14.63	-13.63

W5E1

#### Remark:

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

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

WSTT

Over= Emission Level - Limit.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

# \*\*\*\*\*END OF REPORT\*\*\*\*\*

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