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# **TEST REPORT**

FCC ID: 2ADYY-T16MAPRO

**Product: Laptop Computer** 

Model No.: T16MA Pro

**Trade Mark: TECNO** 

Report No.: WSCT-A2LA-R&E240300015A-15B

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.



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Certificate #5768.01

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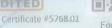


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### 1. Test Certification

Product: Laptop Computer

Model No. T16MA Pro

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
Standards:

FCC CFR Title 47 Part 15 Subpart B

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)

Date:

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# 2. GENERAL DESCRIPTION OF EUT

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Equipment Type:	Laptop Computer W577	WISIA A
Test Model:	T16MA Pro	
Trade Mark	TECNO	
Operating Voltage:	Adapter1: A879-200500C-US1 Input: 100-240V~50/60Hz 2.5A Output:PD:5V==3A /9V==3A /12V==3A/15V /20V==5A PPS:3.3-11V==5A 55W Max 3.3-21V==5A 100W Max Rechargeable Li-ion Battery: N160 Nominal Voltage: 11.61V Rated Capacity: 8612mAh Rated Energy:99.99Wh Limited Charge Voltage: 13.35V	/==-3.0A
Remark:	N/A.	

Configuration differences

Configuration/ Processor	Camera
T16MA Pro (i5)	KANC792
T16MA Pro (i7)	CK2B2B

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

WEIGH WEIGH WEIGH WEIGH WEIGH

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# 3. Test Result Summary

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Requirement		CFR 47 Sectio	n	Result
CONDUCTED EMISS	SION	§15.107		PASS
RADIATED EMISSI	ON WAS	§15.109	ATT-14	PASS

1175141	RADIATED EMISSION	§15.109	PASS	
	Note:		7579	751
NIE STATE OF THE S	<ol> <li>PASS: Test item meets the requirements.</li> <li>Fail: Test item does not meet the</li> <li>N/A: Test case does not apply to</li> <li>The test result judgment is decided.</li> </ol>	requirement. the test object.		
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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.

1	Pretest Mode	Description
4	Mode 1	Video Recording
	Model 2	Video Playing
	Mode 3	Transferring with USB Disk (the worst case)
	Mode 4	TF Card Playing

	WHE	WATER	No.	54	NETT	WETO	N
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	WEIGH	X (4) 4 (1)		54	VI631916	NI ET PI	
NV.	741	WSET	WSI	Wester	W	70	
	VEIG	West	N. A.	State	WESTER	WESTER	
NV.	741	MSET	N. F.	WEIGH		707	
	sion & Texa	West at		174	Wister	VVJ-51-91	
1	WSTATI STATION & TESTING GROUP (Sherry)	250	N/FIRE	NIET BE		741	/
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1.8m USB cable



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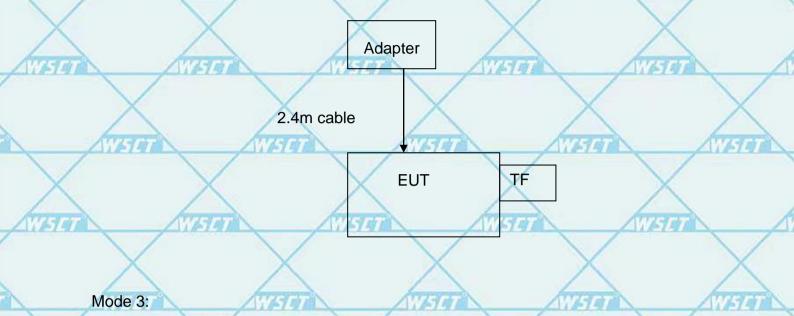
keyboard

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# **CONFIGURATION OF SYSTEM UNDER TEST**

Mode 1&2&4

Mouse



(EUT: Laptop Computer)

1.8m USB cable

`					=
7					
	I/O Port Type	Q'TY	Cable	Tested with	X
	Power	1	2.4m cable, unshielded	1	1723 0
/	USB cable	1	1.8m USB cable, unshielded	1	18-14

**EUT** 

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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.

Ite	m Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	TF	Kingston	DTX/64GB	X	/
2	keyboard	DELL	KB522		/
13	Mouse	DELL	MS116	4177	- /
4	Adapter	1	A879-200500C-US1	/	1
5	USB Disk	Kingston	1/	1	

### Note:

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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 FLength column.

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		$\langle \hspace{0.1cm} \rangle$		X	X
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				X	X
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# 5. MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	7
×	Test software		EZ-EMC	CON-03A	)	V	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
7	LISN W54	AFJ	LS16	16010222119	11/05/2023	11/04/2024	_
	LISN(EUT)	Mastic	AN3016	04/10040	11/05/2023	11/04/2024	<u>,</u>
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	ſ
	System Controller	CT	SC100		11/05/2023	11/04/2024	7
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
^	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	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	7
	9*6*6 Anechoic	17270	17234	- /	11/05/2023	11/04/2024	3
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		$\langle \ \rangle$			740
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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

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
2	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
7	4	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
9	6	Temperature	±0.5°C
	7	Humidity	±2.0%

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### 7. EMC EMISSION TEST

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### 7.1. CONDUCTED EMISSION MEASUREMENT

### 7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

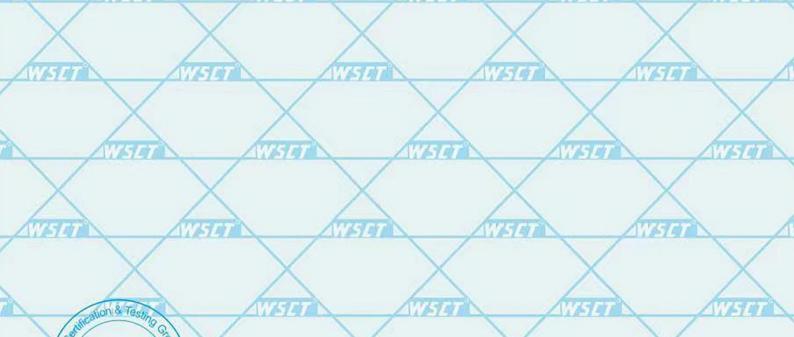
	The same and the s	JP-17 F F WE AND AGE AGE		21112101	J. 17 / J. 10 May 2011		
FREOL	FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru	
Ī	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC	
	0.50 -5.0	73.00	60.00	56.00	46.00	FCC	
-	5.0 -30.0	73.00	60.00	60.00	50.00	FCC	

### Note:

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

The following table is the setting of the receiver

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



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### TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains www.wsct-cert.com 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.

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e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Power input-

# Shielding room V GRP coaxial cable (80cm) Receive V GRP

LISN

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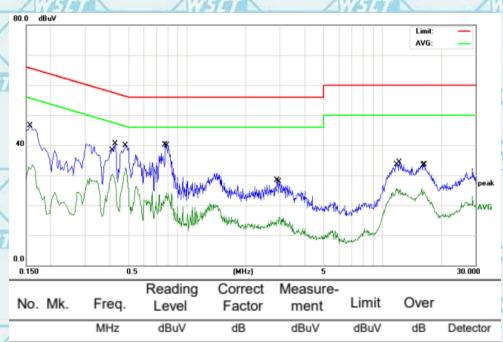
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### 7.1.2. Test Results

Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Adapter: Mode 3(the worst case)

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



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		1
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	2
	1		0.1580	36.00	10.41	46.41	65.56	-19.15	QP	
1	2		0.4100	19.47	10.45	29.92	47.65	-17.73	AVG	
Ä	3		0.4300	29.95	10.46	40.41	57.25	-16.84	QP	
ľ	4	*	0.4860	21.98	10.47	32.45	46.24	-13.79	AVG	1
ľ	5		0.7740	29.62	10.49	40.11	56.00	-15.89	QP	1
	6		0.7900	13.65	10.49	24.14	46.00	-21.86	AVG	1
1	7		2.8860	17.64	10.67	28.31	56.00	-27.69	QP	
1	8		2.9739	5.44	10.67	16.11	46.00	-29.89	AVG	
F	9		11.7580	14.55	10.88	25.43	50.00	-24.57	AVG	
	10		12.1940	23.43	10.91	34.34	60.00	-25.66	QP	1
	11		15.9900	14.64	11.06	25.70	50.00	-24.30	AVG	
	12		16.4820	22.43	11.06	33.49	60.00	-26.51	QP	

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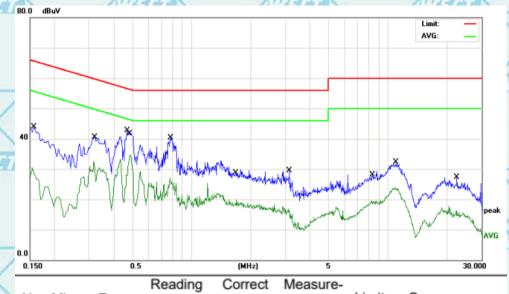




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### Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



-	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
ľ	1		0.1580	33.47	10.41	43.88	65.56	-21.68	QP
Ī	2		0.3180	22.00	10.43	32.43	49.76	-17.33	AVG
	3		0.4700	32.25	10.46	42.71	56.51	-13.80	QP
1	4	*	0.4820	24.15	10.47	34.62	46.30	-11.68	AVG
	5		0.7780	16.53	10.49	27.02	46.00	-18.98	AVG
Į,	6		0.7820	29.90	10.49	40.39	56.00	-15.61	QP
	7		1.6980	9.35	10.61	19.96	46.00	-26.04	AVG
Ī	8		3.1420	18.74	10.67	29.41	56.00	-26.59	QP
	9		8.2820	8.76	10.76	19.52	50.00	-30.48	AVG
,	10		10.8660	12.99	10.84	23.83	50.00	-26.17	AVG
	11		11.0180	21.47	10.84	32.31	60.00	-27.69	QP
	12		22.4740	16.37	11.02	27.39	60.00	-32.61	QP

### 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

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

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### 7.2. RADIATED EMISSION MEASUREMENT

### 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
4	1.705~30.0	30	30
À	30~88	100	3
	88~216	150	3
	216~960	200	X 3 X
	Above 960	500	3

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

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

### Notes:

- (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
1	Attenuation	Auto
	Start Frequency	1000 MHz
	Stop Frequency	10th carrier harmonic
0	RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average
h	band)	I MINZ / I MINZ IOI FEAK, I MINZ / INZ IOI AVEIAGE

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











Report No.: WSCT-A2LA-R&E240300015A-15B

### TEST PROCEDURE

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- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For the 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.

WHAT	WSI	NEIGH	WETGE	WSEIT	
NV E1		$\langle \ \rangle$	$\times$	$\times$	74
W-10	WSGI	AVISTATI	WEIGH	WESTER	
NVI-1		$\langle \ \ \rangle$	$\times$	$\times$	700
WETH	W/SIRI	WATER OF	W-5197	V/6-1-9-0	
NV ES			$\times$	$\times$	700
WETER	WETER I	NIETET	Wister	776-191	,
				$\times$	74
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Wasti San San Company	1 ) (Sheek	VETRE	WETER	17274	,

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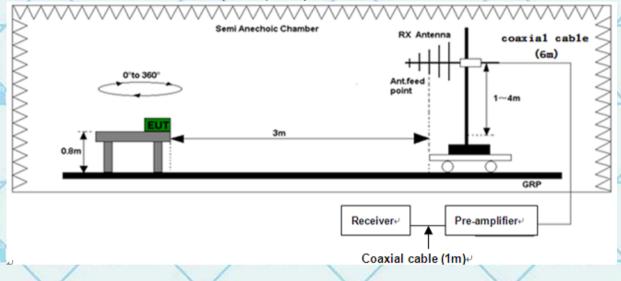


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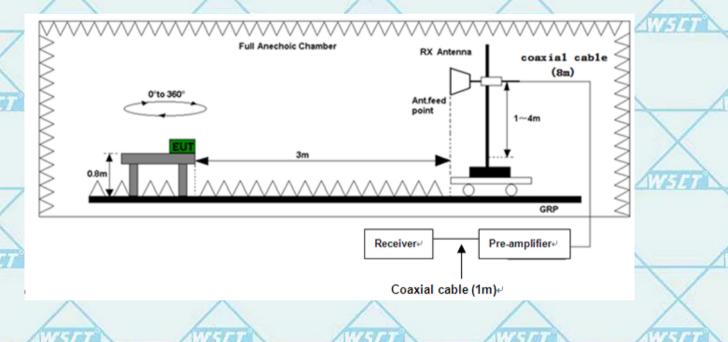
**TEST SETUP** 

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

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





ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86:755-26996192 26992306 FAX:86-755-86376605. E-mail: Fengbing.Wang@wsci-cert.com Http://www.wsci-cert.com









7.2.2. Test Results

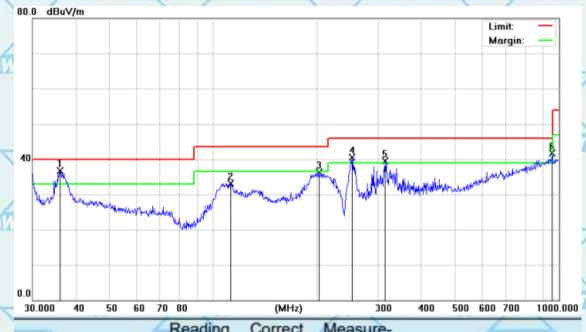
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	Temperature	20 ℃	Relative Humidity	48%	1		
,	Pressure	1010 hPa	Test Mode	Adapter: Mode 3(the worst case)	Tr'	674	

# Please refer to following diagram for individual Below 1GHz

### Horizontal:



	No.	Mk	Freq.	Reading	Correct	Measure- ment	Limit	Over	To all
1			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	*	36.0007	37.91	-1.12	36.79	40.00	-3.21	QP
	2	1	112.5244	36.05	-2.85	33.20	43.50	-10.30	QP
_	/3		202.1005	40.07	-3.82	36.25	43.50	-7.25	QP
	4	!	252.0627	42.07	-1.62	40.45	46.00	-5.55	QP
2	5	1	314.3765	39.07	0.50	39.57	46.00	-6.43	QP
L	6	1	955.4381	27.83	13.83	41.66	46.00	-4.34	QP

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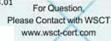


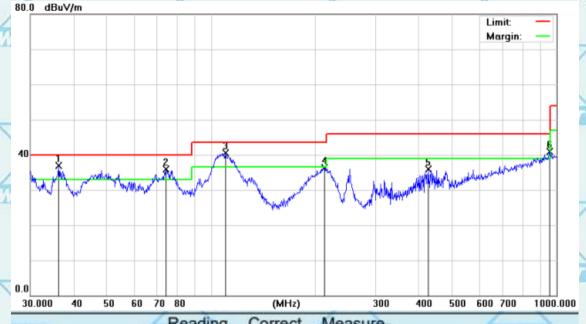


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Vertical:







6	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	74
4.4.			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	1	36.2541	37.91	-1.08	36.83	40.00	-3.17	QP
	2	K	74.1351	39.98	-4.14	35.84	40.00	-4.16	QP
1	3	*	110.1816	43.62	-3.21	40.41	43.50	-3.09	QP
	4		213.0151	39.52	-3.28	36.24	43.50	-7.26	QP
Í	7/5	7	426.5210	32.31	3.53	35.84	46.00	-10.16	QP
	6	!	955.4381	27.13	13.83	40.96	46.00	-5.04	QP

Note:

Freq. = Emission frequency in MHz

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

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

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

Limit (dBµV) = Limit stated in standard

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

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ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992300 FAX-86-755-86376605: E-mail:Fengbing.Wang@wsci-cert.com Http://www.wsci-cert.com









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**TEST RESULTS** 

Above 1GHz(1~26GHz) :( Adapter:Mode 3—worst case)

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	All the second second	and the second s	PITTZ all ale all	The second secon	of the self and self to		ATTA HE AND AND		
,	Freq.	Ant.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
	(MHz)	Pol.							
		H/V	PK	AV	PK	AV	PK	AV	
	1624.33	V	60.60	40.85	74	54	-13.40	-13.15	
y	2849.91	V	58.93	39.61	74	54	-15.07	-14.39	
	1729.48	Н	59.86	40.79	74	54	-14.14	-13.21	
	2766.17	Н	58.26	39.26	74	54	-15.74	-14.74	

Remark:

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.

Over= Emission Level - Limit.

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

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