

# **TEST REPORT**

Report No.: BCTC2306297855E

Applicant: Shenzhen Creality 3D Technology Co., Ltd.

Product Name: 3D Printer

Model/Type Reference:

CR-M4

Tested Date: 2023-06-26 to 2023-07-24

Issued Date: 2023-08-04

Shenzhen BCTC Testing Co., Ltd.



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## FCC ID: 2AXH6-CR-M4

Product Name: 3D Printer

Trademark: CREALITY

Model/Type Ref.: CR-M4

Prepared For: Shenzhen Creality 3D Technology Co., Ltd.

Address: 18F, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, China

518131

Manufacturer: Shenzhen Creality 3D Technology Co., Ltd.

Address: 18F, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, China

518131

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,

Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2023-06-26

Sample tested Date: 2023-06-26 to 2023-07-24

Report No.: BCTC2306297855E

Test Standards: FCC Part15.247

ANSI C63.10-2013

Test Results: PASS

Tested by:

Brave 2emg

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

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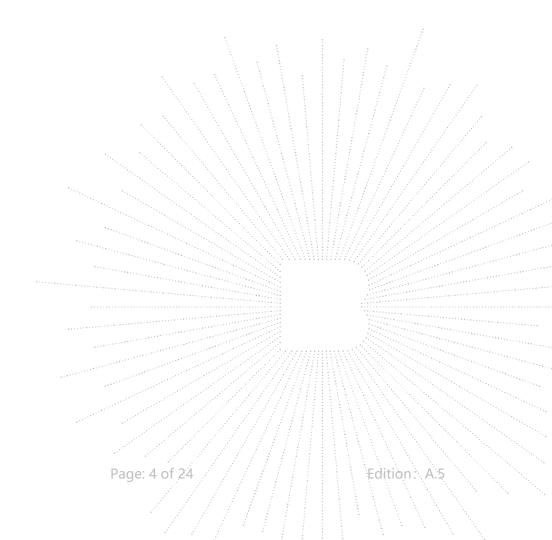
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### 1. Version

Report No.	Issue Date	Description	Approved
BCTC2306297855E	2023-08-04	Original	Valid





## 2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	Radiated Emissions	15.209	PASS

Remark: Based on the following changes in the product, the RF chip remains unchanged.

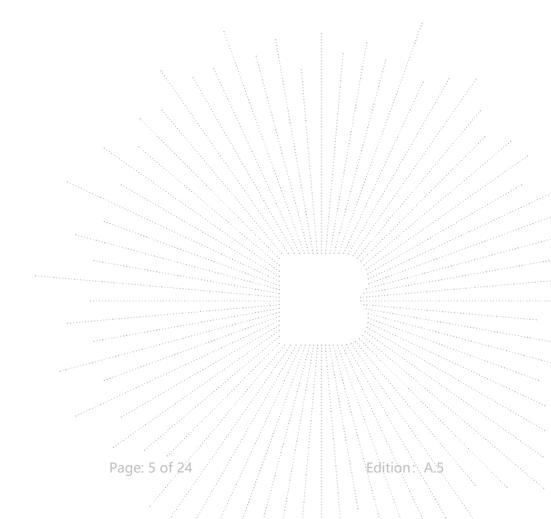
So the report is only updated Conducted emissions and Radiated Emissions for the original

report (BCTC2210685862-1E/-2E) 。

#### content of change

No.: BCTC/RF-EMC-005

Change the power supply, the original two power supplies with small power, replaced a power supply with large power

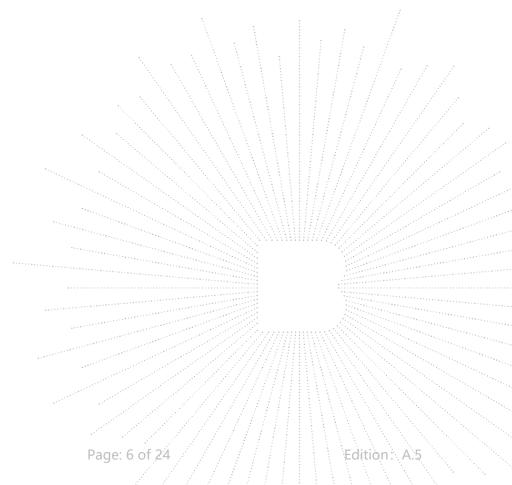




Report No.: BCTC2306297855E 3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	humidity uncertainty	U=5.3%
2	Temperature uncertainty	U=0.59℃
3	Conducted Emission (150kHz-30MHz)	U=3.2dB
4	Radiated disturbance(30MHz-1000MHz)	U=4.8dB
5	Radiated disturbance(1GHz-6GHz)	U=4.9dB
6	Radiated disturbance(1GHz-18GHz)	U=5.0dB





## 4. Product Information and Test Setup

## 4.1 Product Information

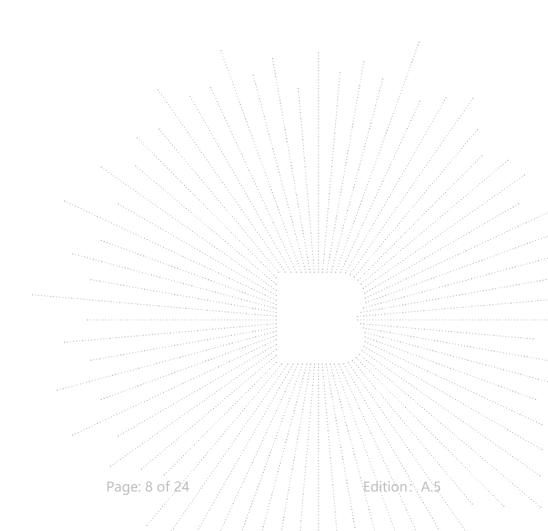
Model/Type reference:	CR-M4
Model differences:	N/A
Bluetooth Version::	Bluetooth V5.0
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	Bluetooth: 2402-2480MHz
Type of Modulation:	Bluetooth: GFSK
Number Of Channel:	40 channel
Maximum Conducted Output Power:	-2.52 dBm
Antenna installation:	Internal antenna
Antenna Gain:	2.21 dBi
Ratings:	AC 100V-240V~,50/60Hz

Model/Type Ref.	CR-M4
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	802.11b 802.11g 802.11n(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth)
Operation Frequency:	802.11b/g/n20MHz:2412~2462 MHz 802.11n40MHz:2422~2452 MHz
Type of Modulation:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Number Of Channel:	11 channels for 802.11b/g/n(HT20); 7 Channels for 802.11n(HT40);

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Transmit Power Max	16.52 dBm
Antenna installation:	Internal antenna
Antenna Gain:	2.27 dBi
Power supply:	AC 100V-240V~,50/60Hz

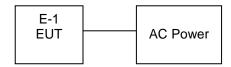




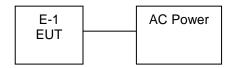
## 4.2 Test Setup Configuration

See test photographs attached in eut test setup photographs for the actual connections between product and support equipment.

#### Conducted Emission:



#### Radiated Spurious Emission:



## 4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	3D Printer	N/A	CR-M4	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
N/A	N/A	N/A	N/A	N/A

#### Notes:

- 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.

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#### 4.4 Channel List

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2402	11	2422	21	2442
02	2404	12	2424	22	2444
03	2406	13	2426	23	2446
~	~	~	~	~	~
09	2418	19	2438	39	2478
10	2420	20	2440	40	2480

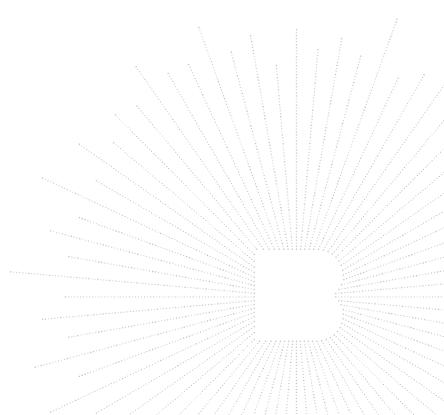
#### 4.5 Test Mode

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.

For All Mode	Description	Modulation Type
Mode 1	Link mode (Radiated emission)	

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.



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#### 5.Test Facility And Test Instrument Used

#### 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng , Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850 A2LA certificate registration number is: CN1212

ISED Registered No.: 23583 ISED CAB identifier: CN0017

#### 5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 15, 2023	May 14, 2024

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	1 / /	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A		May 15, 2023	May 14, 2024
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Radio frequency control box	MAIWEI	MW100-RFC B	1		
Software	MAIWEI	MTS 831.0		\	

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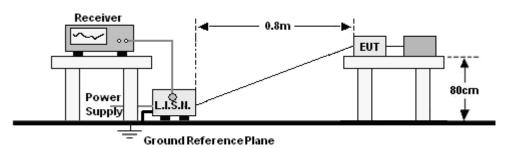
Radiated Emissions Test (966 Chamber)						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023	
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023	
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023	
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023	
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023	
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 24, 2022	May 23, 2023	
Horn Antenna (18GHz-40GH z)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	May 23, 2023	
Amplifier (18GHz-40GH z)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023	
Loop Antenna (9KHz-30MHz )	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023	
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-000 8	May 26, 2022	May 25, 2023	
RF cables2 (30MHz-1GHz )	Huber+Suhnar	30MHz-1GHz	1486150	May 26, 2022	May 25, 2023	
RF cables3 (1GHz-40GHz )	Huber+Suhnar	1GHz-40GHz	1607106	May 28, 2021	May 25, 2023	
Power Metter	Keysight	E4419		May 26, 2022	May 25, 2023	
Power Sensor (AV)	Keysight	E9300A		May 26, 2022	May 25, 2023	
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023	
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	May 26, 2022	May 25, 2023	
Software	Frad	EZ-EMC	FA-03A2 RE	\	<u></u>	

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#### 6.Conducted Emissions

#### 6.1 Block Diagram Of Test Setup



#### 6.2 Limit

Fraguency (MHz)	Limit (	(dBuV)
Frequency (MHz)	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

#### Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

#### 6.3 Test procedure

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

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

### 6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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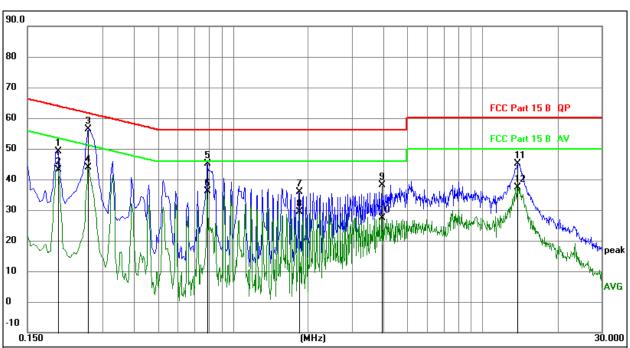
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



#### 6.5 Test Result

Temperature:	<b>24</b> ℃	Relative Humidity:	51%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 1	Test Voltage :	AC 120V/60Hz



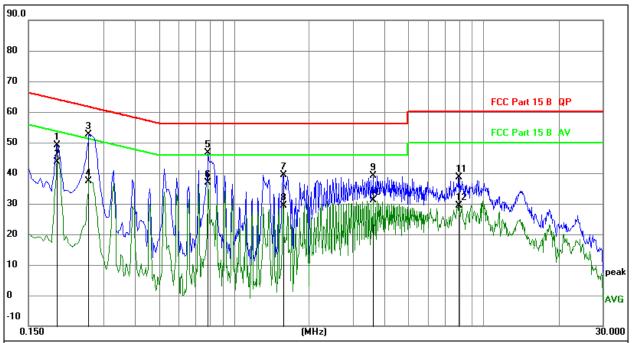
#### Remark:

- All readings are Quasi-Peak and Average values.
  Factor = Insertion Loss + Cable Loss.
  Measurement = Reading Level + Correct Factor
  Over = Measurement Limit

No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1995	39.40	9.61	49.01	63.63	-14.62	QP
2	0.1995	33.45	9.61	43.06	53.63	-10.57	AVG
3 *	0.2625	46.81	9.61	56.42	61.35	-4.93	QP
4	0.2625	34.19	9.61	43.80	51.35	-7.55	AVG
5	0.7890	35.56	9.65	45.21	56.00	-10.79	QP
6	0.7890	26.42	9.65	36.07	46.00	-9.93	AVG
7	1.8420	26.06	9.73	35.79	56.00	-20.21	QP
8	1.8420	19.56	9.73	29.29	46.00	-16.71	AVG
9	3.9480	28.17	9.84	38.01	56.00	-17.99	QP
10	3.9480	17.61	9.84	27.45	46.00	-18.55	AVG
11	13.8120	35.57	9.66	45.23	60.00	-14.77	QP
12	13.8120	27.72	9.66	37.38	50.00	-12.62	AVG



Temperature:	<b>24</b> ℃	Relative Humidity:	51%
Pressure:	101KPa	Phase :	Ν
Test Mode:	Mode 1	Test Voltage :	AC 120V/60Hz



#### Remark:

- All readings are Quasi-Peak and Average values.
  Factor = Insertion Loss + Cable Loss.
  Measurement = Reading Level + Correct Factor
  Over = Measurement Limit

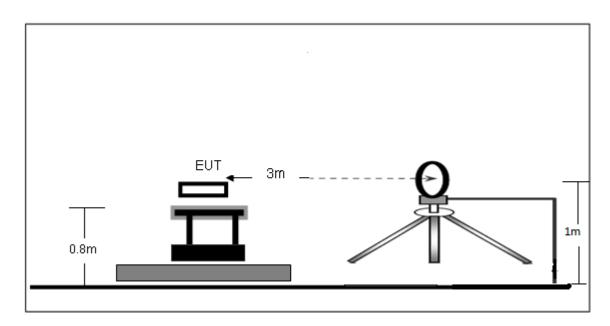
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1945	39.59	9.60	49.19	63.84	-14.65	QP
2		0.1945	34.03	9.60	43.63	53.84	-10.21	AVG
3	*	0.2615	43.06	9.61	52.67	61.38	-8.71	QP
4		0.2615	27.75	9.61	37.36	51.38	-14.02	AVG
5		0.7876	37.04	9.65	46.69	56.00	-9.31	QP
6		0.7876	27.29	9.65	36.94	46.00	-9.06	AVG
7		1.5684	29.62	9.73	39.35	56.00	-16.65	QP
8		1.5684	19.57	9.73	29.30	46.00	-16.70	AVG
9		3.6034	29.29	9.82	39.11	56.00	-16.89	QP
10		3.6034	21.25	9.82	31.07	46.00	-14.93	AVG
11		7.9353	28.93	9.72	38.65	60.00	-21.35	QP
12		7.9353	19.76	9.72	29.48	50.00	-20.52	AVG



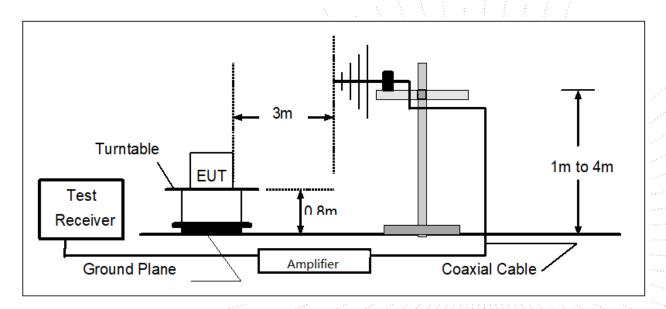
#### 7.Radiated Emissions

## 7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



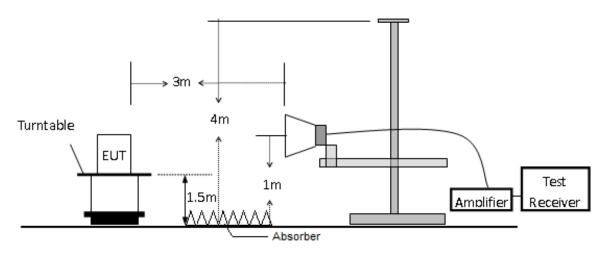
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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#### (C) Radiated Emission Test-Up Frequency Above 1GHz



#### 7.2 Limit

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.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log <sup>(2400/F(kHz))</sup> + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log <sup>(24000/F(kHz))</sup> + 40	
1.705 ~ 30	30	30	100 * 30	20log <sup>(30)</sup> + 40	
30 ~ 88	100	3	100	20log <sup>(100)</sup>	
88 ~ 216	150	3	150	20log <sup>(150)</sup>	
216 ~ 960	200	3	200	20log <sup>(200)</sup>	
Above 960	500	3	500	20log <sup>(500)</sup>	

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m	) (at 3M)
Frequency (MHZ)	Peak	Average
Above 1000	74	54

#### 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).

Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

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- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

#### 7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

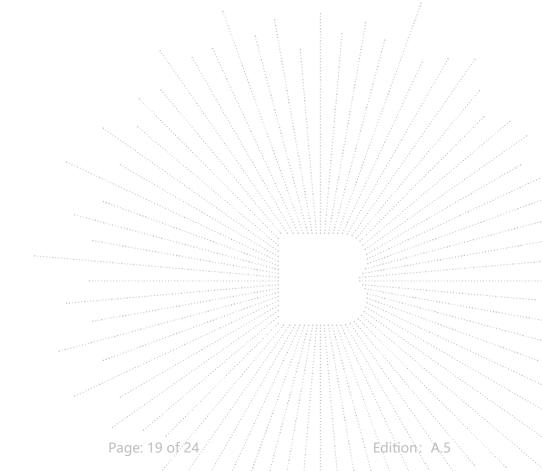
g. Test the EUT in the lowest channel, the middlest channel, the Highest channel.

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

#### 7.4 EUT operating Conditions

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The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.





#### 7.5 Test Result

#### Below 30MHz

Temperature:	<b>24</b> ℃	Relative Humidity:	51%	
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz	
Test Mode:	Mode 1	Test voltage.	AC 120V/00HZ	

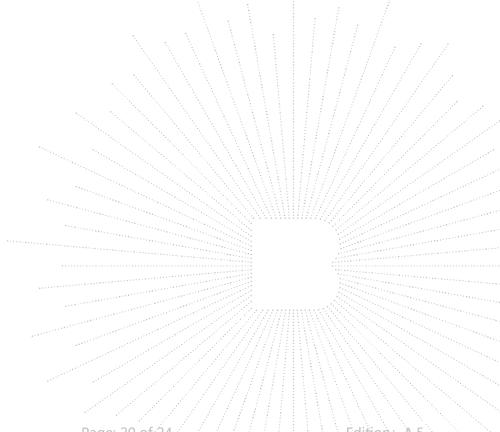
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

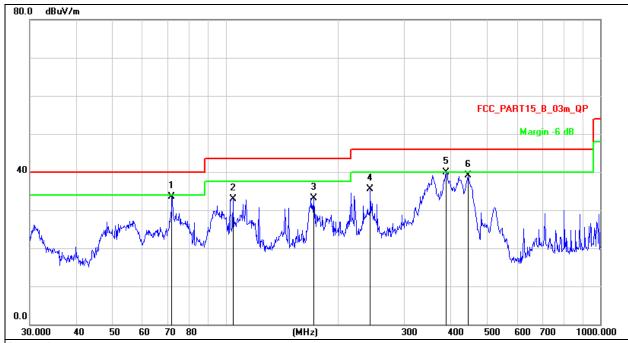


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#### Between 30MHz - 1GHz

Temperature:	<b>24</b> ℃	Relative Humidity:	51%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 1	Test Voltage :	AC 120V/60Hz



#### Remark:

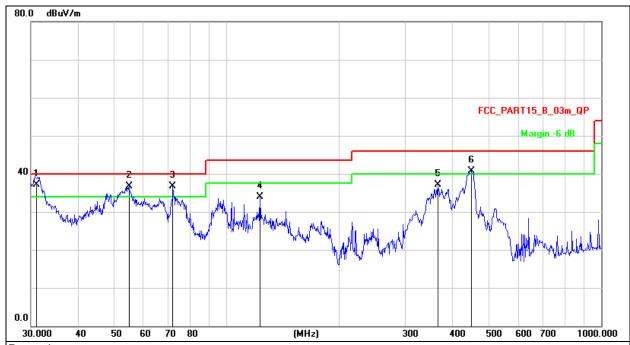
- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement = Reading Level + Correct Factor
- 3. Over = Measurement Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		71.8320	53.69	-20.24	33.45	40.00	-6.55	QP
2	1	04.5361	51.01	-18.06	32.95	43.50	-10.55	QP
3	1	71.9946	52.54	-19.43	33.11	43.50	-10.39	QP
4	2	43.3772	51.51	-16.03	35.48	46.00	-10.52	QP
5	* 3	87.9920	52.19	-12.35	39.84	46.00	-6.16	QP
6	4	44.8514	50.75	-11.56	39.19	46.00	-6.81	QP

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Temperature:	<b>24</b> ℃	Relative Humidity:	51%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz



#### Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement = Reading Level + Correct Factor
- 3. Over = Measurement Limit

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	31.0250	55.24	-18.21	37.03	40.00	-2.97	QP
2	İ	54.8348	53.09	-16.32	36.77	40.00	-3.23	QP
3	İ	71.8320	56.92	-20.24	36.68	40.00	-3.32	QP
4		122.8340	53.15	-19.26	33.89	43.50	-9.61	QP
5		366.8231	49.61	-12.59	37.02	46.00	-8.98	QP
6	ļ	451.1350	52.25	-11.46	40.79	46.00	-5.21	QP

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## 8.EUT Test Setup Photographs

#### **Conducted Emission Measurement Photos**



## **Radiated Measurement Photos**



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#### STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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\*\*\*\* END \*\*\*\*

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