

**FCC 47 CFR Part 15 Subpart B**

**TEST REPORT**

*For*

**Dot Matrix Printer**

**Model No.: PRN-7, PT-1S+, PRN-7+, PRN-7 Pro**

**FCC ID: Z7OTDPRN7**

**Trademark: DASCOSM, Tally/DASCOSM**

**Report No.: E01A22020139F00101**

**Issue Date: February 16, 2023**

*Prepared for*

**Jiangmen Dascom Computer Peripherals Co., Ltd**

**No.399, Jin Xing Road, Jiang Hai District, Jiangmen City, Guang Dong  
Province, P.R. China**

*Prepared by*

**Dong Guan Anci Electronic Technology Co., Ltd.**

**1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-tech  
Industrial Development Zone, Dongguan City, Guangdong Pr., China**

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## TEST REPORT DESCRIPTION

Applicant : Jiangmen Dascom Computer Peripherals Co., Ltd  
 Manufacturer : Jiangmen Dascom Computer Peripherals Co., Ltd  
 Trade Mark : DASCUM, Tally/DASCUM  
 EUT : Dot Matrix Printer  
 Model No. : PRN-7, PT-1S+, PRN-7+, PRN-7 Pro  
 Power Supply : 100-240VAC, 50/60Hz, 1.5A


### Measurement Procedure Used:

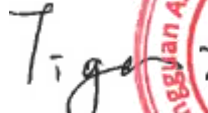
CFR 47, FCC Part 15 Subpart B  
 ANSI C63.4-2014

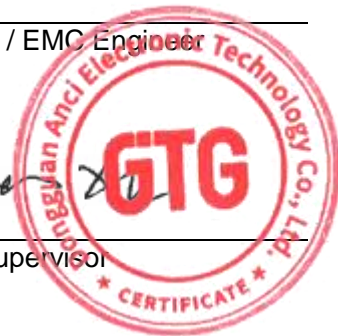
The device described above is tested by Dong Guan Anci Electronic Technology Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Dong Guan Anci Electronic Technology Co., Ltd. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Dong Guan Anci Electronic Technology Co., Ltd.

Date of Test : February 08, 2023 to February 15, 2023

Prepared by :   
Duke Liu / EMC Engineer

Approved & Authorized Signer :   
Tiger Xu / Supervisor



**Modified Information**

Version	Report No.	Revision Data	Summary
Ver.1.0	E01A22020139F00101	/	Original Version

## 1. SUMMARY OF TEST RESULTS

<b>EMISSION</b>		
Description of Test Item	Standard & Limits	Results
Conducted Emission at Mains Terminals	FCC Part 15, Subpart B, Class B ANSI C63.4-2014	Pass
Radiated Emission below 1GHz	FCC Part 15, Subpart B, Class B ANSI C63.4-2014	Pass
Radiated Emission above 1GHz	FCC Part 15, Subpart B, Class B ANSI C63.4-2014	N/A(Note)
Note: The maximum operating frequency of the product does not exceed 108MHz.		

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT : Dot Matrix Printer

Model Number : PRN-7, PT-1S+, PRN-7+, PRN-7 Pro  
The four models have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, except the different model number.

Test Number : PRN-7

Test Voltage : AC 120V/60Hz

Applicant : Jiangmen Dascom Computer Peripherals Co., Ltd

Address : No.399, Jin Xing Road, Jiang Hai District, Jiangmen City, Guang Dong Province, P.R. China

Manufacturer : Jiangmen Dascom Computer Peripherals Co., Ltd

Address : No.399, Jin Xing Road, Jiang Hai District, Jiangmen City, Guang Dong Province, P.R. China

Date of Received : February 08, 2023

Date of Test : February 08, 2023 to February 15, 2023

## 2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
0	Enclosure	N/E	--	--	None
1	AC Input port	AC	No	No	1 port
2	USB Port	I/O	No	No	1 port
3	LPT Port	I/O	No	No	1 port
4	LAN Port	I/O	--	--	1 port
	Serial Port	I/O	--	--	1 port

\* Note: Use abbreviations:

AC= AC Power Port

DC= DC Power Port

N/E= Non-Electrical

I/O= Signal Input or Output Port (Not Involved in Process Control)

TP= Telecommunication Ports

## 2.3. Independent Operation Modes

- A. USB Port printing
- B. LPT port printing
- C. Serial port printing
- D. Lan port printing

## 2.4. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Radiated Emission	AC 120V/60Hz	Mode A, B,C D	Mode B
Conducted Emission	AC 120V/60Hz	Mode A, B,C D	Mode A

## 2.5. Description of Test Facility

Site Description  
 Name of Firm : Dong Guan Anci Electronic Technology Co., Ltd.  
 Site Location : 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.

## 2.6. Test Software

Item Software  
 Conducted Emission : EZ-EMC Ver:ANCI-3A1

Radiated Emission : EZ-EMC Ver:ANCI-3A1

## 2.7. Description of Support Device

PC : Model: Optiplex 5000 SN:7D187T3  
 MFR.: DELL  
 Display : Model: XV282K SN:11905560742  
 MFR.: ACER  
 Mouse : Model: M120pro SN:OD1929391424245  
 MFR.: Lenovo  
 Keyboard : Model: LXH-EKB-10YA SN: 25209111  
 MFR.: Lenovo

## 2.8. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission Uncertainty	: 2.96dB(9k~150kHz Conduction 1#) 2.74dB(150k-30MHz Conduction 1#)
Radiated Emission Uncertainty (3m Chamber)	: 3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V)



### 3. MEASURING DEVICE AND TEST EQUIPMENT

#### 3.1. For Power Line Conducted Emission Measurement

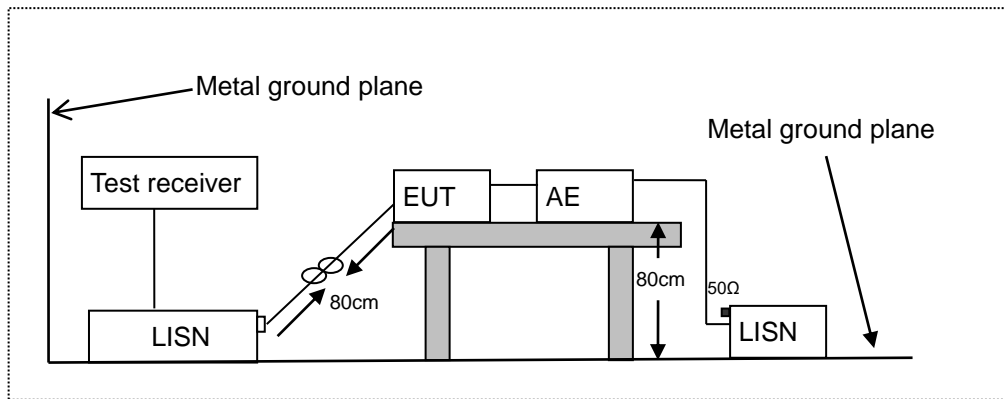
Item	EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
1.	LISN	ROHDE&SCHWARZ	ENV216	101413	2023-10-07
2.	RF Cable	N/A	ZT06S-NJ-NJ-2.5M	19044022	2023-05-12
3.	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2023-05-12
4.	1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2025-11-21
5.	Test Software	Farad	EZ-EMC (Ver.ANCI-3A1)	N/A	N/A

#### 3.2. For Radiated Emission Measurement

Item	Equipment Type	Manufacturer	Model No.	Serial Number	Calibrated until
1.	EMI Test Receiver	Rohde & Schwarz	ESPI7	100502	2023-10-07
2.	Pre-Amplifier	Anritsu	MH648A	M57886	2023-05-12
3.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-1290	2023-12-11
4.	RF Cable	N/A	ZT06S-NJ-NJ-11M	19060398	2023-05-12
5.	RF Cable	N/A	ZT06S-NJ-NJ-0.5M	19060400	2023-05-12
6.	RF Cable	N/A	ZT06S-NJ-NJ-2.5M	19060404	2023-05-12
7.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2024-11-11
8.	Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A

## 4. POWER LINE CONDUCTED EMISSION MEASUREMENT

### 4.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network

AE: Associated equipment

EUT: Equipment under test

### 4.2. Limits

FCC Part 15, Subpart B, Class B

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.  
NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

### 4.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

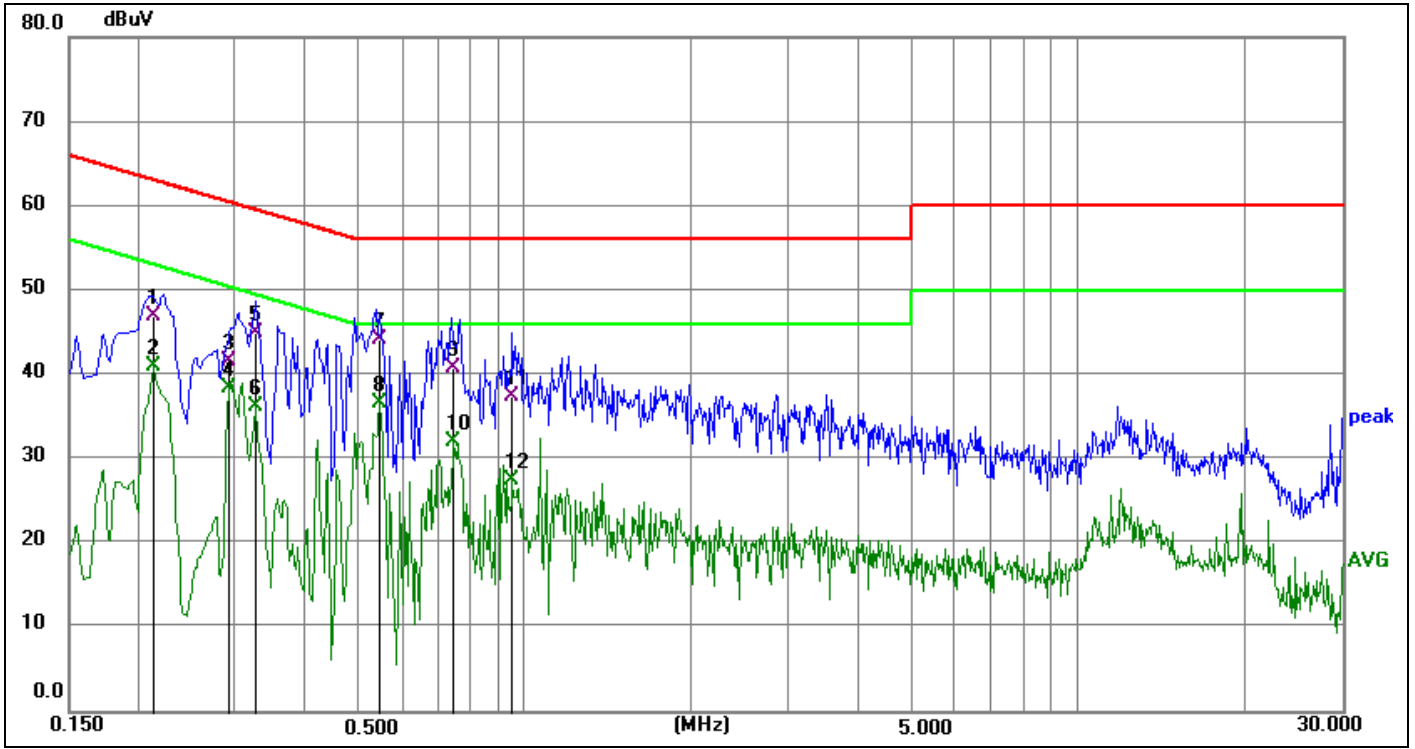
Emission Level (dB $\mu$ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB $\mu$ V)

Margin (dB) = Emission Level (dB $\mu$ V) - Limit (dB $\mu$ V)

#### 4.4. Measuring Results

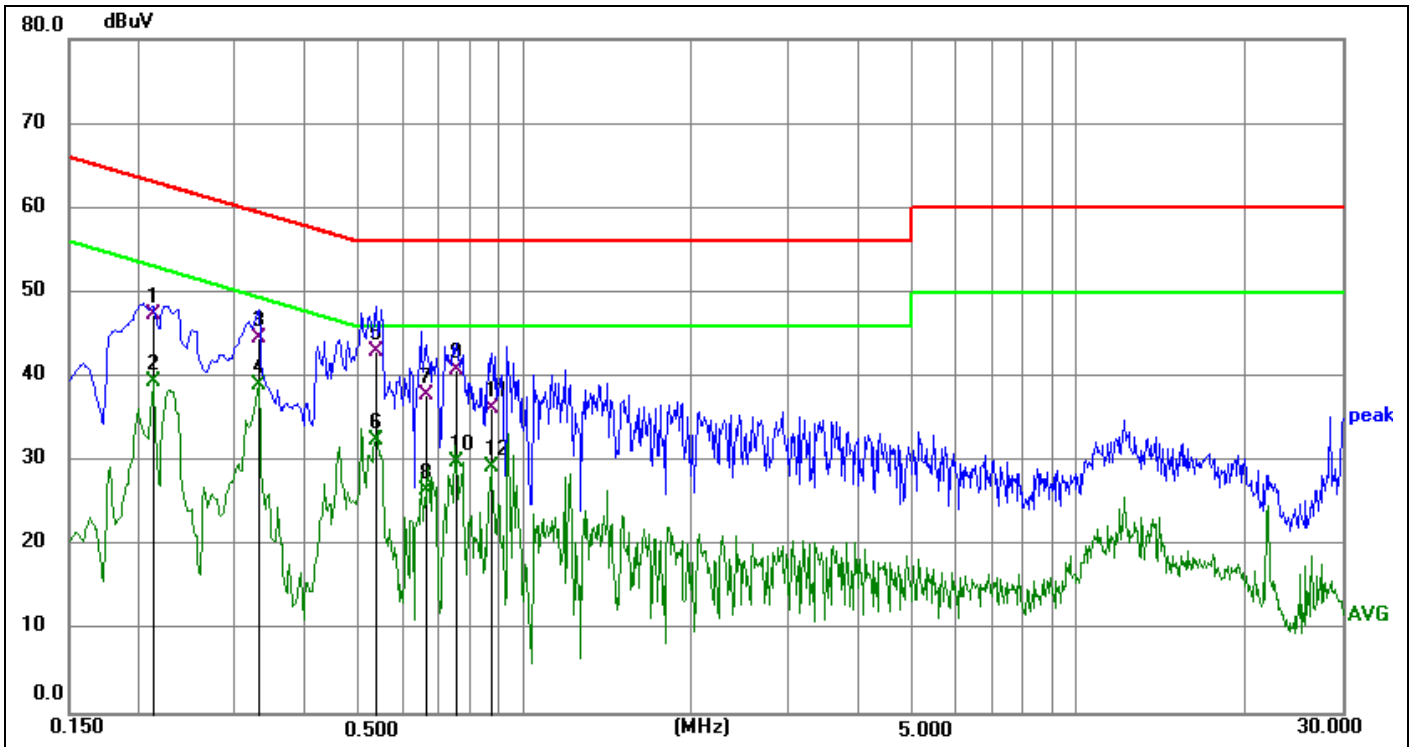
**PASS.**

Please refer to following pages.



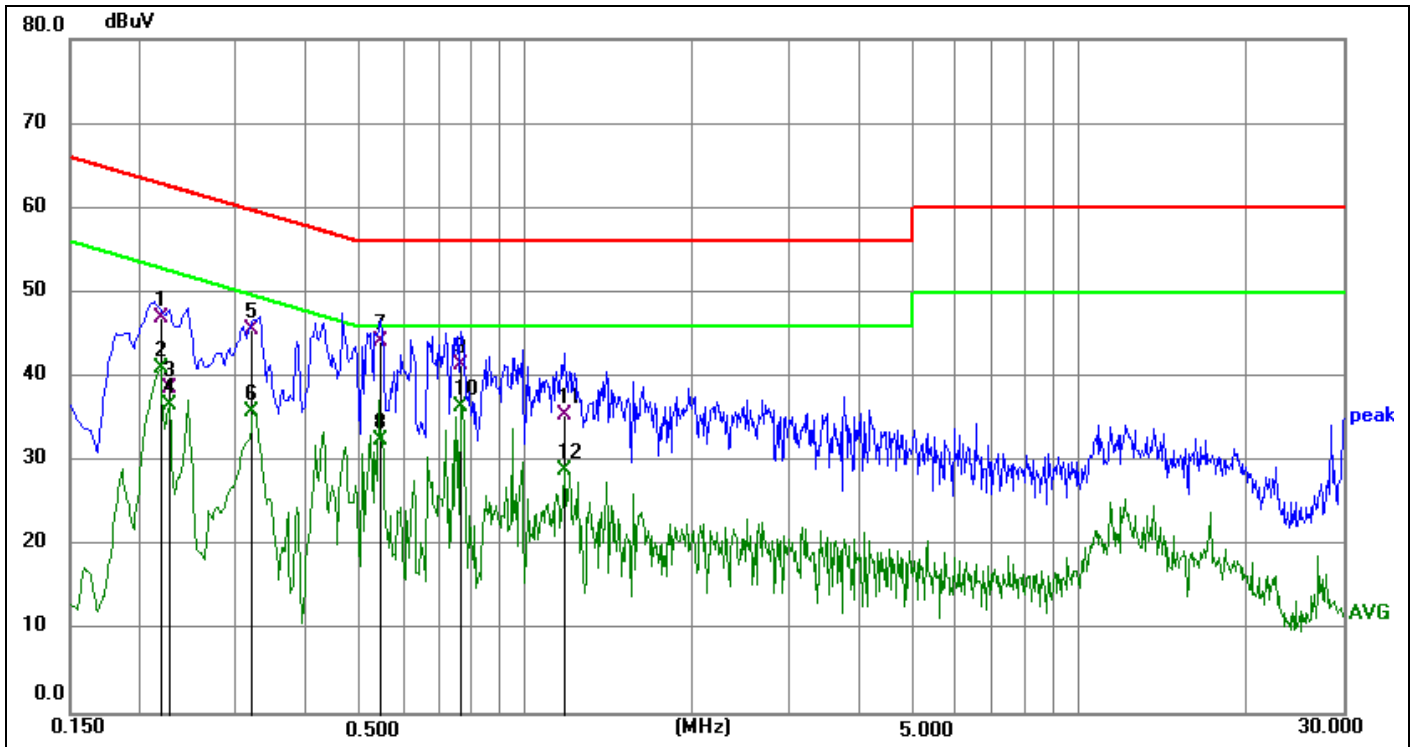
<b>Site:</b>	Shielding Room A-1	<b>Phase:</b> L1	<b>Temperature(C):</b> 26(C)
<b>Limit:</b>	FCC Part 15 B Conduction(QP)		<b>Humidity(%):</b> 54%RH
<b>EUT:</b>	Dot Matrix Printer	<b>Test Time:</b>	2023/2/14
<b>M/N.:</b>	PRN-7	<b>Power Rating:</b>	AC120V/60Hz
<b>Mode:</b>	USB port print	<b>Test Engineer:</b>	Sunshine
<b>Note:</b>			

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2130	37.05	9.87	46.92	63.09	-16.17	QP
2	0.2130	31.05	9.87	40.92	53.09	-12.17	AVG
3	0.2924	31.83	9.80	41.63	60.46	-18.83	QP
4	0.2924	28.53	9.80	38.33	50.46	-12.13	AVG
5	0.3255	35.17	9.88	45.05	59.57	-14.52	QP
6	0.3255	26.30	9.88	36.18	49.57	-13.39	AVG
7	0.5460	34.20	9.88	44.08	56.00	-11.92	QP
8	0.5460	26.72	9.88	36.60	46.00	-9.40	AVG
9	0.7440	30.89	9.95	40.84	56.00	-15.16	QP
10	0.7440	22.06	9.95	32.01	46.00	-13.99	AVG
11	0.9510	27.35	10.01	37.36	56.00	-18.64	QP
12	0.9510	17.43	10.01	27.44	46.00	-18.56	AVG



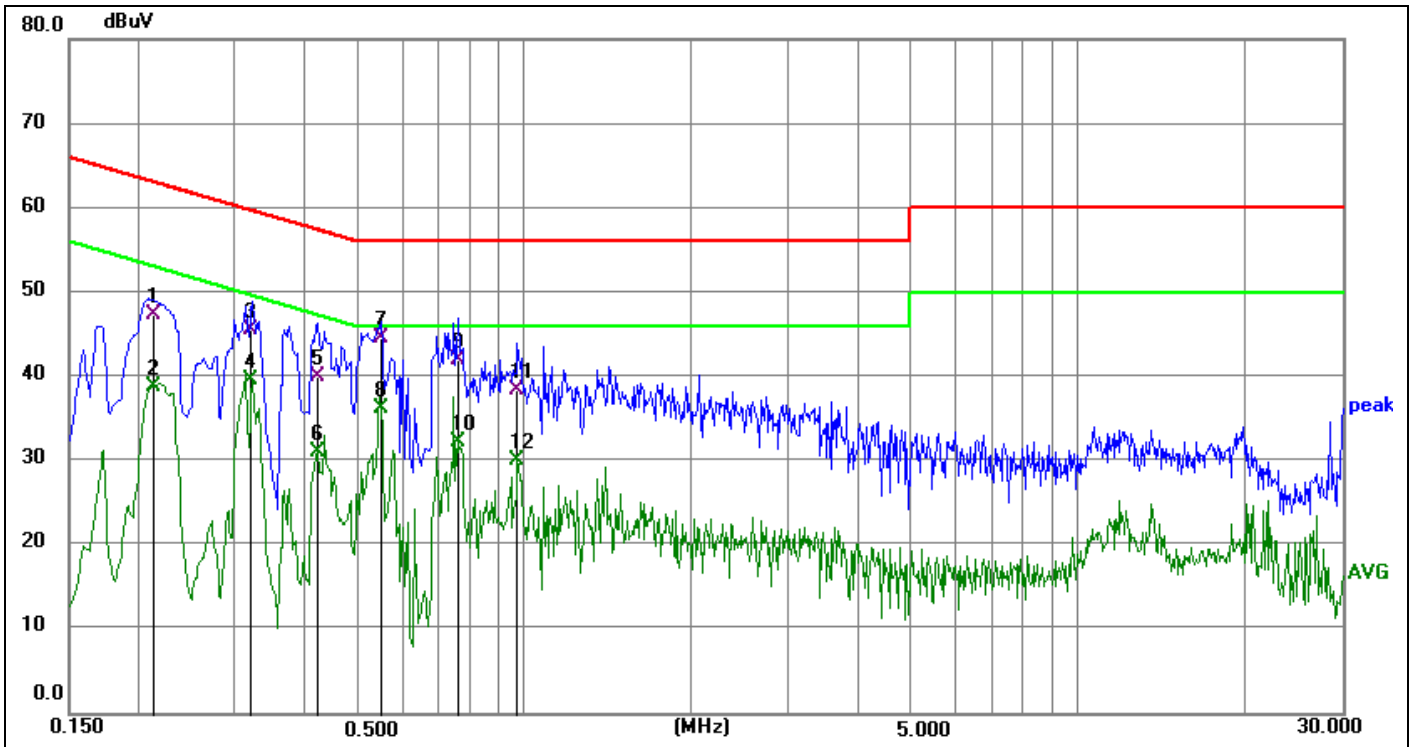
Site:	Shielding Room A-1	Phase: N	Temperature(C): 26(C)
Limit:	FCC Part 15 B Conduction(QP)		Humidity(%): 54%RH
EUT:	Dot Matrix Printer	Test Time:	2023/2/14
M/N.:	PRN-7	Power Rating:	AC120V/60Hz
Mode:	USB port print	Test Engineer:	Sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2130	37.37	9.89	47.26	63.09	-15.83	QP
2	0.2130	29.53	9.89	39.42	53.09	-13.67	AVG
3	0.3300	34.79	9.86	44.65	59.45	-14.80	QP
4	0.3300	29.24	9.86	39.10	49.45	-10.35	AVG
5	0.5370	32.96	9.96	42.92	56.00	-13.08	QP
6	0.5370	22.44	9.96	32.40	46.00	-13.60	AVG
7	0.6648	27.84	9.99	37.83	56.00	-18.17	QP
8	0.6648	16.61	9.99	26.60	46.00	-19.40	AVG
9	0.7530	30.88	10.01	40.89	56.00	-15.11	QP
10	0.7530	19.82	10.01	29.83	46.00	-16.17	AVG
11	0.8745	26.23	10.01	36.24	56.00	-19.76	QP
12	0.8745	19.30	10.01	29.31	46.00	-16.69	AVG



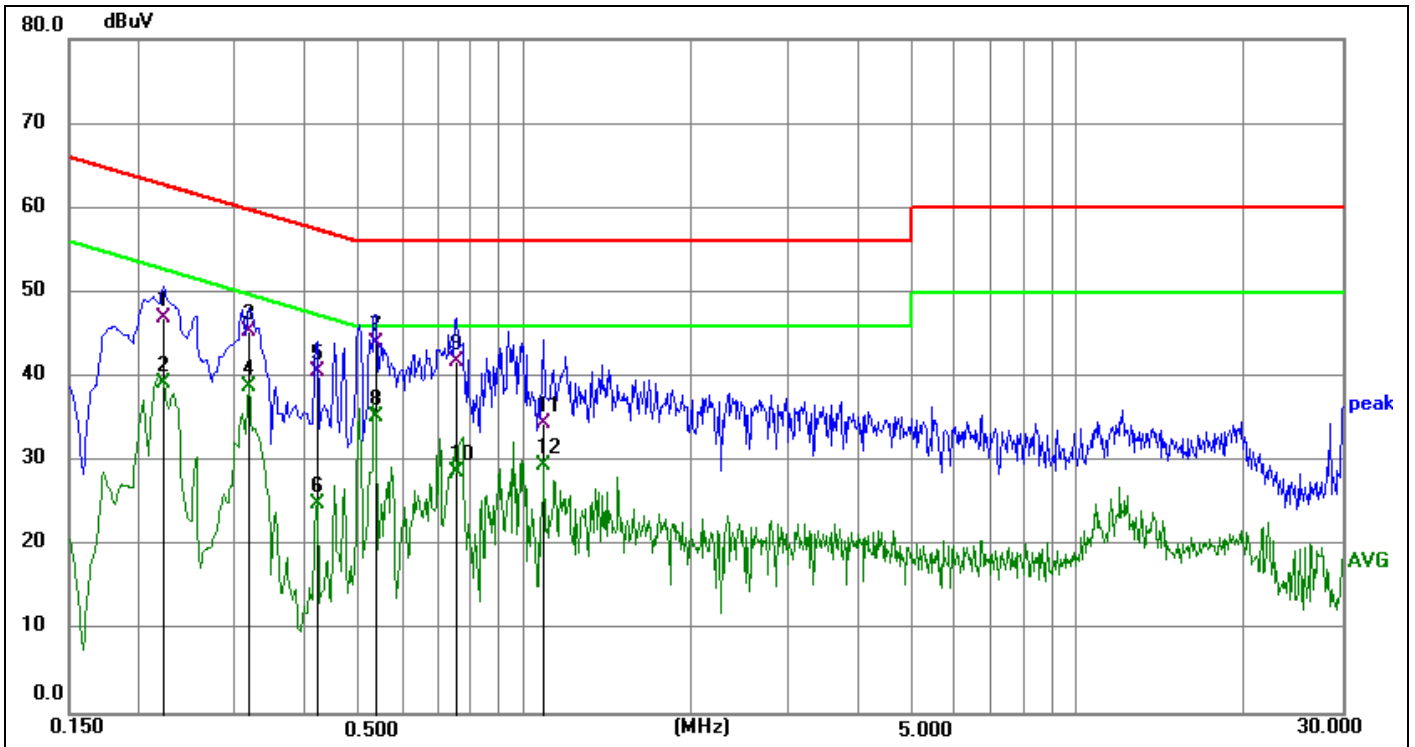
<b>Site:</b>	Shielding Room A-1	<b>Phase:</b>	N	<b>Temperature(C):</b>	26(C)
<b>Limit:</b>	FCC Part 15 B Conduction(QP)			<b>Humidity(%):</b>	54%RH
<b>EUT:</b>	Dot Matrix Printer	<b>Test Time:</b>	2023/2/14		
<b>M/N.:</b>	PRN-7	<b>Power Rating:</b>	AC120V/60Hz		
<b>Mode:</b>	Lan port print	<b>Test Engineer:</b>	Sunshine		
<b>Note:</b>					

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2175	37.07	9.89	46.96	62.91	-15.95	QP
2	0.2175	31.04	9.89	40.93	52.91	-11.98	AVG
3	0.2265	28.75	9.88	38.63	62.58	-23.95	QP
4	0.2265	26.75	9.88	36.63	52.58	-15.95	AVG
5	0.3209	35.75	9.86	45.61	59.68	-14.07	QP
6	0.3209	25.95	9.86	35.81	49.68	-13.87	AVG
7	0.5460	34.28	9.96	44.24	56.00	-11.76	QP
8	0.5460	22.41	9.96	32.37	46.00	-13.63	AVG
9	0.7665	31.38	10.01	41.39	56.00	-14.61	QP
10	0.7665	26.51	10.01	36.52	46.00	-9.48	AVG
11	1.1760	25.25	10.11	35.36	56.00	-20.64	QP
12	1.1760	18.75	10.11	28.86	46.00	-17.14	AVG



<b>Site:</b>	Shielding Room A-1	<b>Phase:</b> L1	<b>Temperature(C):</b> 26(C)
<b>Limit:</b>	FCC Part 15 B Conduction(QP)		<b>Humidity(%):</b> 54%RH
<b>EUT:</b>	Dot Matrix Printer	<b>Test Time:</b>	2023/2/14
<b>M/N.:</b>	PRN-7	<b>Power Rating:</b>	AC120V/60Hz
<b>Mode:</b>	Lan port print	<b>Test Engineer:</b>	Sunshine
<b>Note:</b>			

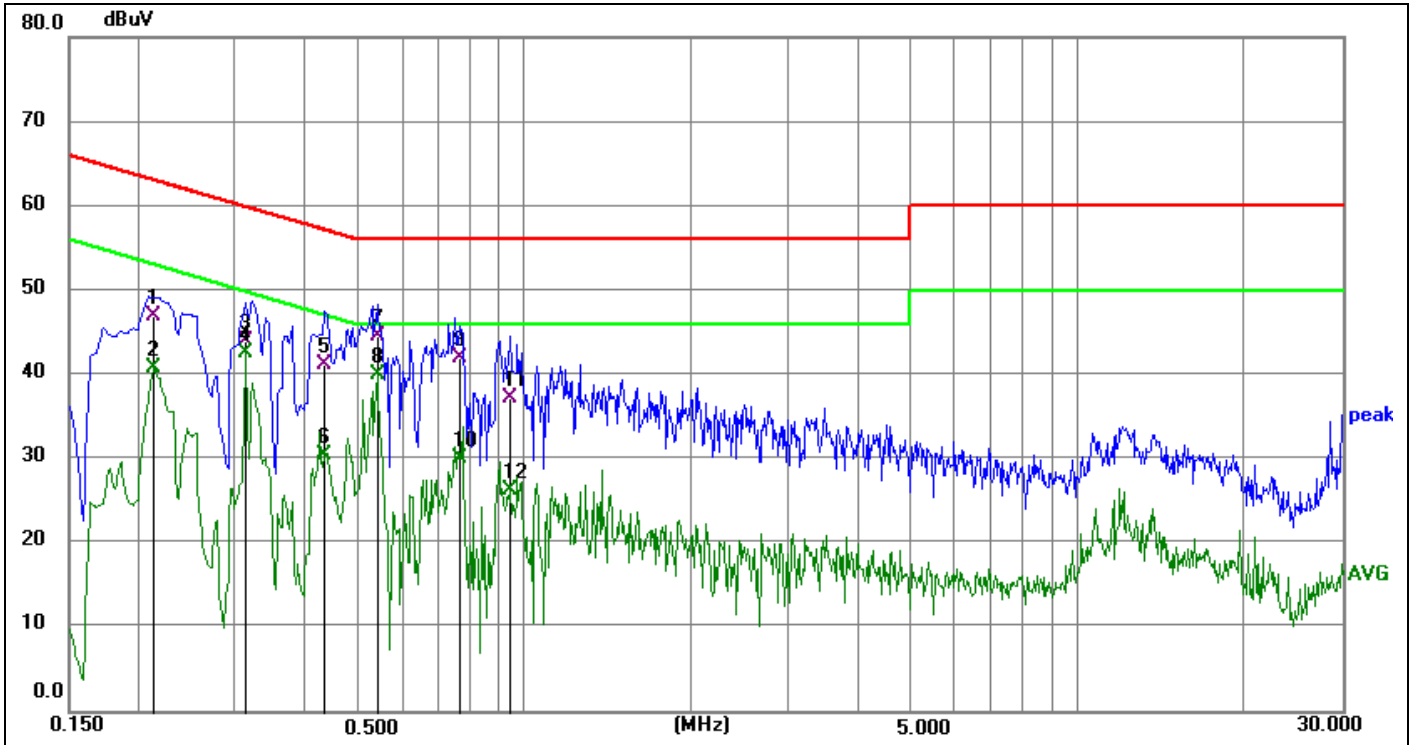
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2130	37.53	9.87	47.40	63.09	-15.69	QP
2	0.2130	28.99	9.87	38.86	53.09	-14.23	AVG
3	0.3209	35.61	9.87	45.48	59.68	-14.20	QP
4	0.3209	29.72	9.87	39.59	49.68	-10.09	AVG
5	0.4200	30.29	9.78	40.07	57.45	-17.38	QP
6	0.4200	21.27	9.78	31.05	47.45	-16.40	AVG
7	0.5505	34.71	9.89	44.60	56.00	-11.40	QP
8	0.5505	26.42	9.89	36.31	46.00	-9.69	AVG
9	0.7575	31.99	9.99	41.98	56.00	-14.02	QP
10	0.7575	22.36	9.99	32.35	46.00	-13.65	AVG
11	0.9690	28.42	10.01	38.43	56.00	-17.57	QP
12	0.9690	20.01	10.01	30.02	46.00	-15.98	AVG



<b>Site:</b>	<b>Shielding Room A-1</b>	<b>Phase:</b>	<b>L1</b>	<b>Temperature(C):</b>	<b>26(C)</b>
<b>Limit:</b>	<b>FCC Part 15 B Conduction(QP)</b>			<b>Humidity(%):</b>	<b>54%RH</b>
<b>EUT:</b>	<b>Dot Matrix Printer</b>	<b>Test Time:</b>			<b>2023/2/14</b>
<b>M/N.:</b>	<b>PRN-7</b>	<b>Power Rating:</b>			<b>AC120V/60Hz</b>
<b>Mode:</b>	<b>LPT port print</b>	<b>Test Engineer:</b>			<b>Sunshine</b>
<b>Note:</b>					

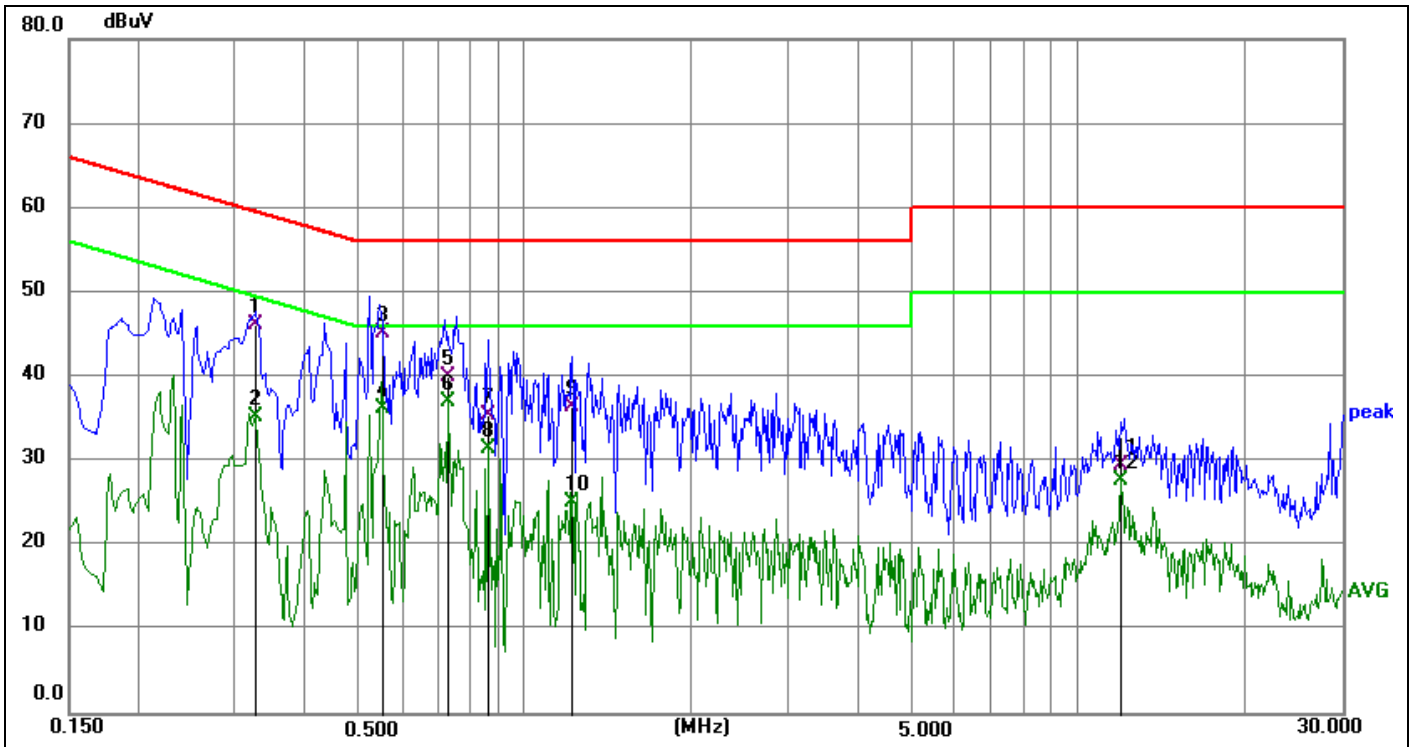
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2220	37.01	9.84	46.85	62.74	-15.89	QP
2	0.2220	29.31	9.84	39.15	52.74	-13.59	AVG
3	0.3165	35.57	9.86	45.43	59.80	-14.37	QP
4	0.3165	28.93	9.86	38.79	49.80	-11.01	AVG
5	0.4200	30.90	9.78	40.68	57.45	-16.77	QP
6	0.4200	15.20	9.78	24.98	47.45	-22.47	AVG
7	0.5370	34.08	9.87	43.95	56.00	-12.05	QP
8	0.5370	25.39	9.87	35.26	46.00	-10.74	AVG
9	0.7530	31.76	9.98	41.74	56.00	-14.26	QP
10	0.7530	18.75	9.98	28.73	46.00	-17.27	AVG
11	1.0859	24.52	10.01	34.53	56.00	-21.47	QP
12	1.0859	19.42	10.01	29.43	46.00	-16.57	AVG





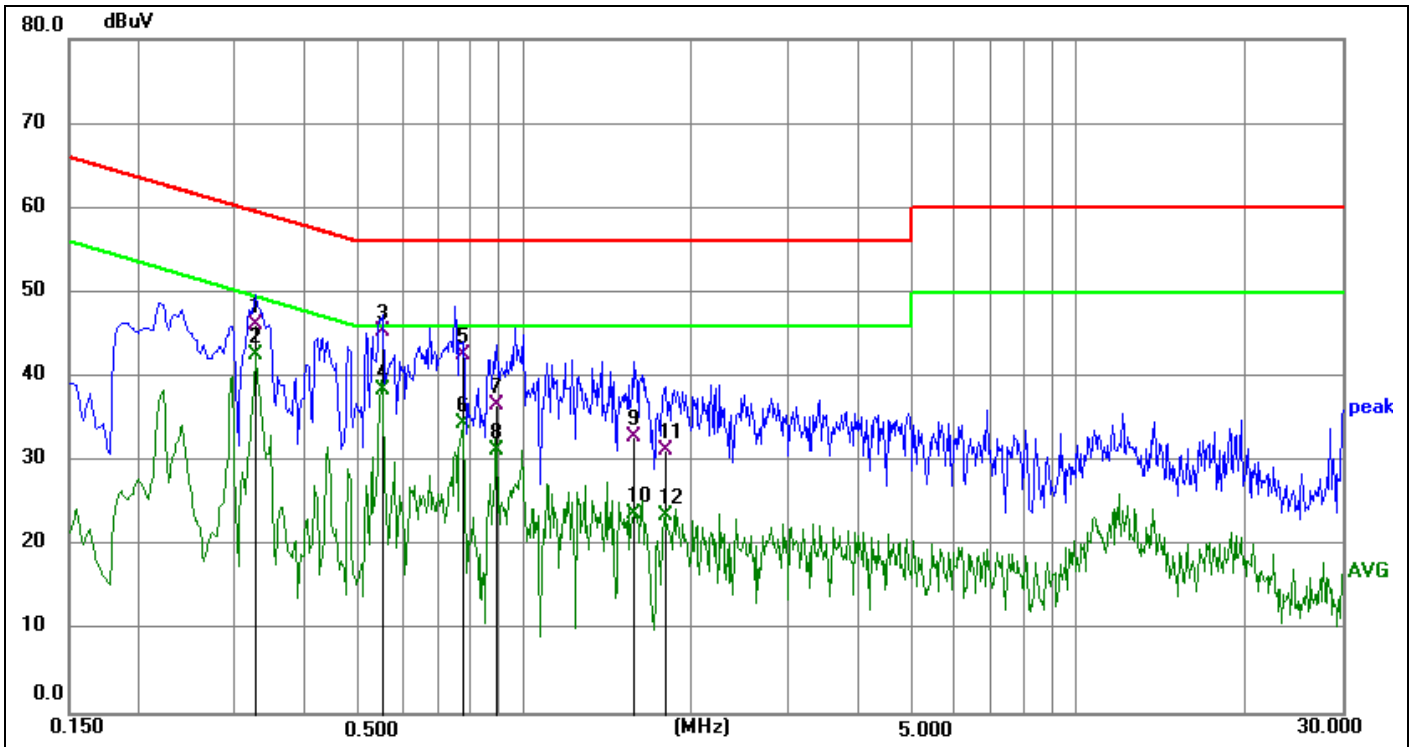
Site:	Shielding Room A-1	Phase: N	Temperature(C): 26(C)
Limit:	FCC Part 15 B Conduction(QP)		Humidity(%): 54%RH
EUT:	Dot Matrix Printer	Test Time:	2023/2/14
M/N.:	PRN-7	Power Rating:	AC120V/60Hz
Mode:	LPT port print	Test Engineer:	Sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2128	36.99	9.89	46.88	63.10	-16.22	QP
2	0.2128	30.90	9.89	40.79	53.10	-12.31	AVG
3	0.3120	34.03	9.85	43.88	59.92	-16.04	QP
4	0.3120	32.75	9.85	42.60	49.92	-7.32	AVG
5	0.4335	31.23	9.91	41.14	57.19	-16.05	QP
6	0.4335	20.57	9.91	30.48	47.19	-16.71	AVG
7	0.5415	34.67	9.96	44.63	56.00	-11.37	QP
8	0.5415	30.11	9.96	40.07	46.00	-5.93	AVG
9	0.7665	32.07	10.01	42.08	56.00	-13.92	QP
10	0.7665	20.02	10.01	30.03	46.00	-15.97	AVG
11	0.9420	27.16	10.05	37.21	56.00	-18.79	QP
12	0.9420	16.30	10.05	26.35	46.00	-19.65	AVG



Site:	Shielding Room A-1	Phase: N	Temperature(C): 26(C)
Limit:	FCC Part 15 B Conduction(QP)		Humidity(%): 54%RH
EUT:	Dot Matrix Printer	Test Time:	2023/2/14
M/N.:	PRN-7	Power Rating:	AC120V/60Hz
Mode:	COM port print	Test Engineer:	Sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3255	36.27	9.86	46.13	59.57	-13.44	QP
2	0.3255	25.46	9.86	35.32	49.57	-14.25	AVG
3	0.5523	35.24	9.96	45.20	56.00	-10.80	QP
4	0.5523	26.22	9.96	36.18	46.00	-9.82	AVG
5	0.7260	30.00	10.00	40.00	56.00	-16.00	QP
6	0.7260	26.98	10.00	36.98	46.00	-9.02	AVG
7	0.8610	25.35	10.01	35.36	56.00	-20.64	QP
8	0.8610	21.39	10.01	31.40	46.00	-14.60	AVG
9	1.2164	26.30	10.11	36.41	56.00	-19.59	QP
10	1.2164	15.07	10.11	25.18	46.00	-20.82	AVG
11	11.9535	18.69	10.86	29.55	60.00	-30.45	QP
12	11.9535	16.77	10.86	27.63	50.00	-22.37	AVG



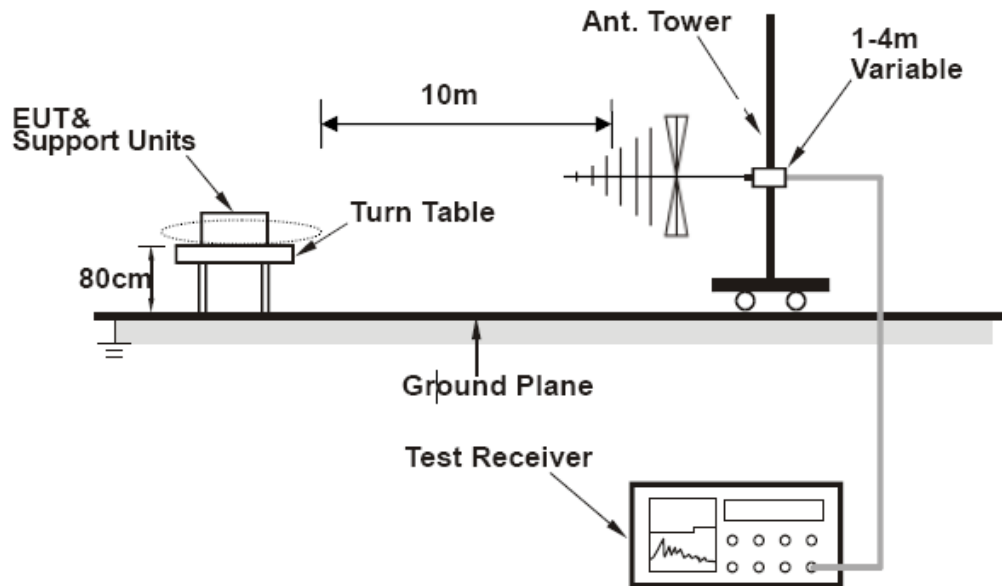
<b>Site:</b>	Shielding Room A-1	<b>Phase:</b> L1	<b>Temperature(C):</b> 26(C)
<b>Limit:</b>	FCC Part 15 B Conduction(QP)		<b>Humidity(%):</b> 54%RH
<b>EUT:</b>	Dot Matrix Printer	<b>Test Time:</b>	2023/2/14
<b>M/N.:</b>	PRN-7	<b>Power Rating:</b>	AC120V/60Hz
<b>Mode:</b>	COM port print	<b>Test Engineer:</b>	Sunshine
<b>Note:</b>			

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3255	36.36	9.88	46.24	59.57	-13.33	QP
2	0.3255	32.61	9.88	42.49	49.57	-7.08	AVG
3	0.5550	35.51	9.90	45.41	56.00	-10.59	QP
4	0.5550	28.42	9.90	38.32	46.00	-7.68	AVG
5	0.7755	32.58	10.04	42.62	56.00	-13.38	QP
6	0.7755	24.36	10.04	34.40	46.00	-11.60	AVG
7	0.8925	26.65	10.03	36.68	56.00	-19.32	QP
8	0.8925	21.27	10.03	31.30	46.00	-14.70	AVG
9	1.5720	22.55	10.24	32.79	56.00	-23.21	QP
10	1.5720	13.46	10.24	23.70	46.00	-22.30	AVG
11	1.8060	21.12	10.20	31.32	56.00	-24.68	QP
12	1.8060	13.35	10.20	23.55	46.00	-22.45	AVG

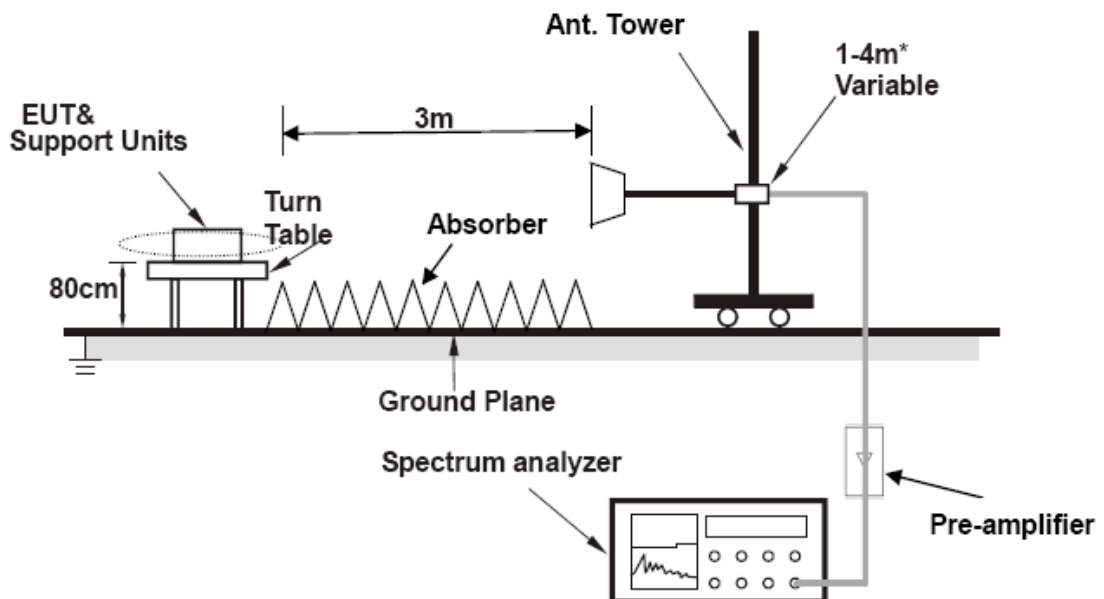
## 5. RADIATED EMISSION MEASUREMENT

### 5.1. Block Diagram of Test Setup

Below 1000MHz:



Above 1000MHz:



### 5.2. Radiated Limit

FCC Part 15, Subpart B, Class B

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

FREQUENCY (GHz)	Distance Meters	PEAK	AVERAGE
Above 1000MHz	3	74dB( $\mu$ V)/m	54dB( $\mu$ V)/m

### 5.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The bandwidth of the Receiver is set at 120 kHz for below 1GHz.  
The bandwidth of the Receiver is set at 1MHz for above 1GHz.

Test results were obtained from the following equation:

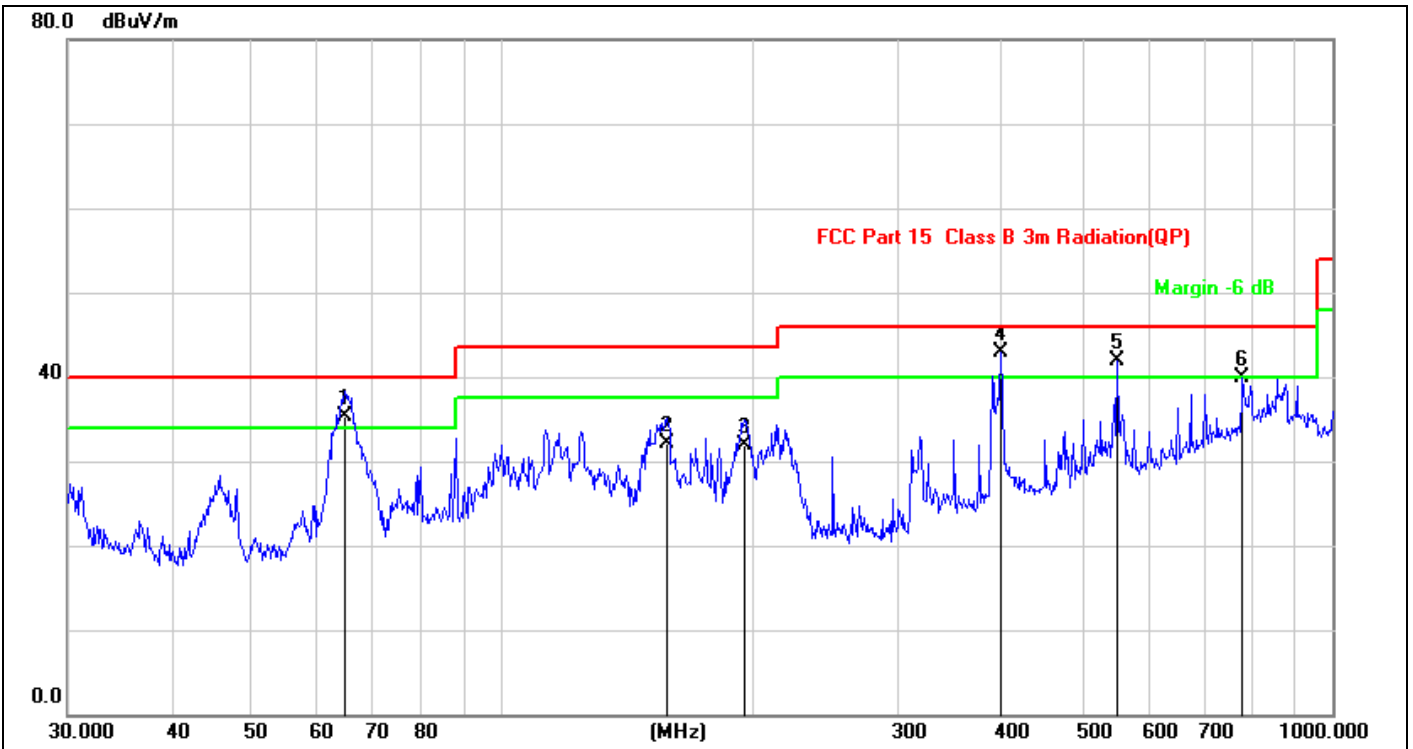
Emission level (dB $\mu$ V/m) = Antenna Factor - Amp Factor + Cable Loss + Reading

Margin (dB) = Emission Level (dB $\mu$ V/m) - Limit (dB $\mu$ V/m)

#### 5.4. Measuring Results

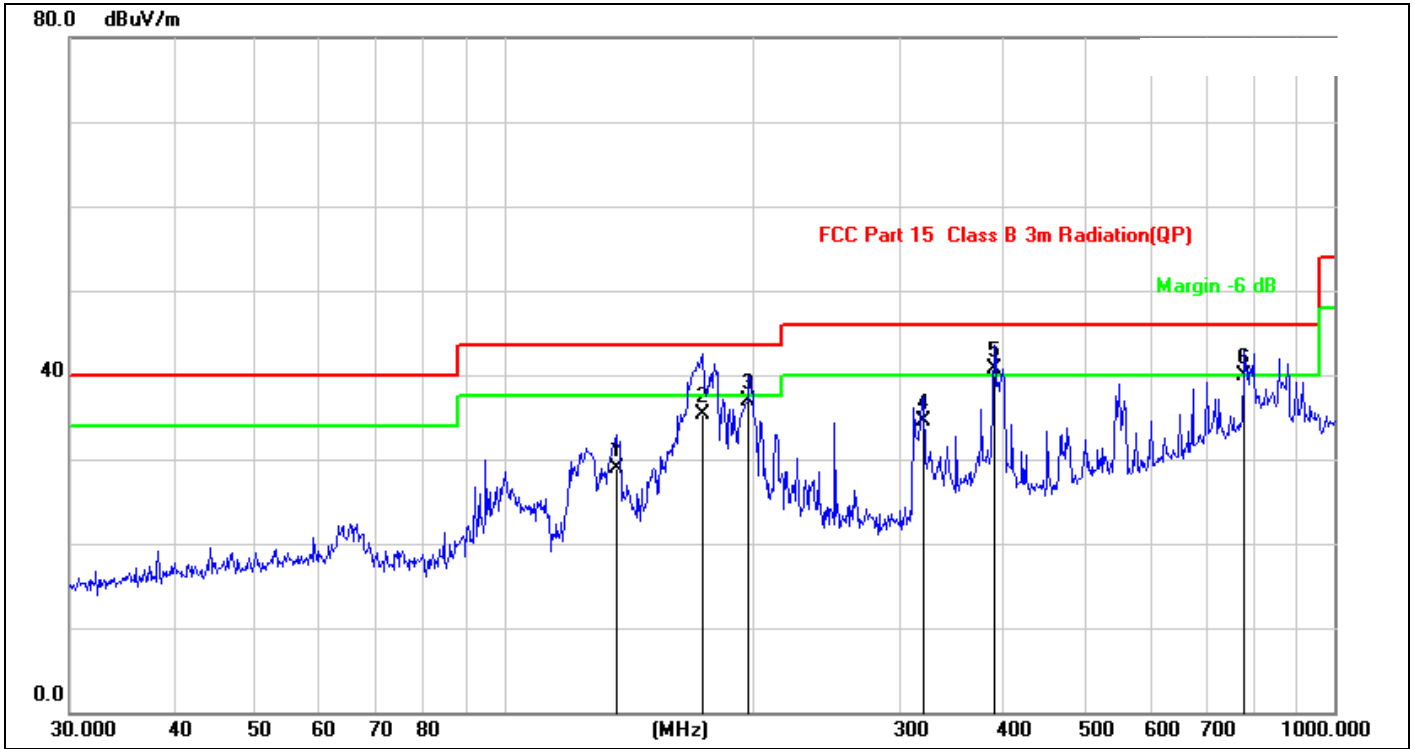
**PASS.**

Please refer to following pages.



Site:	ChamberA-2	Antenna::	Vertical	Temperature(C):	26(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)	Humidity(%):	54%	Test Time:	2023/02/15 23:28:25
EUT:	Dot Matrix Printer	Power Rating:	AC 120V/60Hz	Test Engineer:	Zero
M/N.:	PRN-7				
Mode:	USB port print				
Note:					

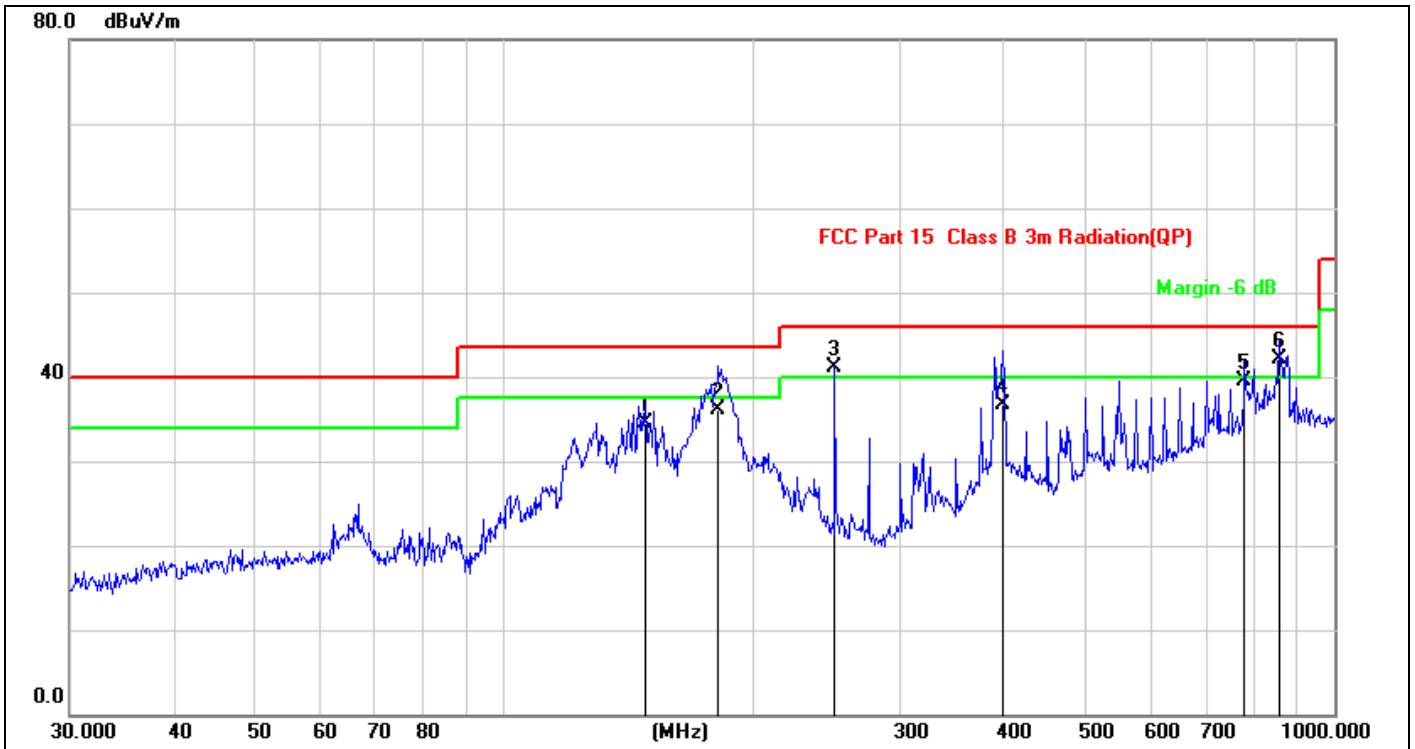
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 !	64.6594	44.55	-9.33	35.22	40.00	-4.78	QP			
2	158.1123	43.52	-11.50	32.02	43.50	-11.48	QP			
3	195.8220	43.28	-11.28	32.00	43.50	-11.50	QP			
4 *	399.0302	45.83	-2.93	42.90	46.00	-3.10	QP			
5 !	550.9480	41.90	0.04	41.94	46.00	-4.06	QP			
6	779.6068	34.56	5.28	39.84	46.00	-6.16	QP			



Site:	ChamberA-2	Antenna::Horizontal	Temperature(C):26(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%):54%
EUT:	Dot Matrix Printer	Test Time:	2023/02/15
M/N.:	PRN-7	Power Rating:	AC 120V/60Hz
Mode:	USB port print	Test Engineer:	Zero
Note:			

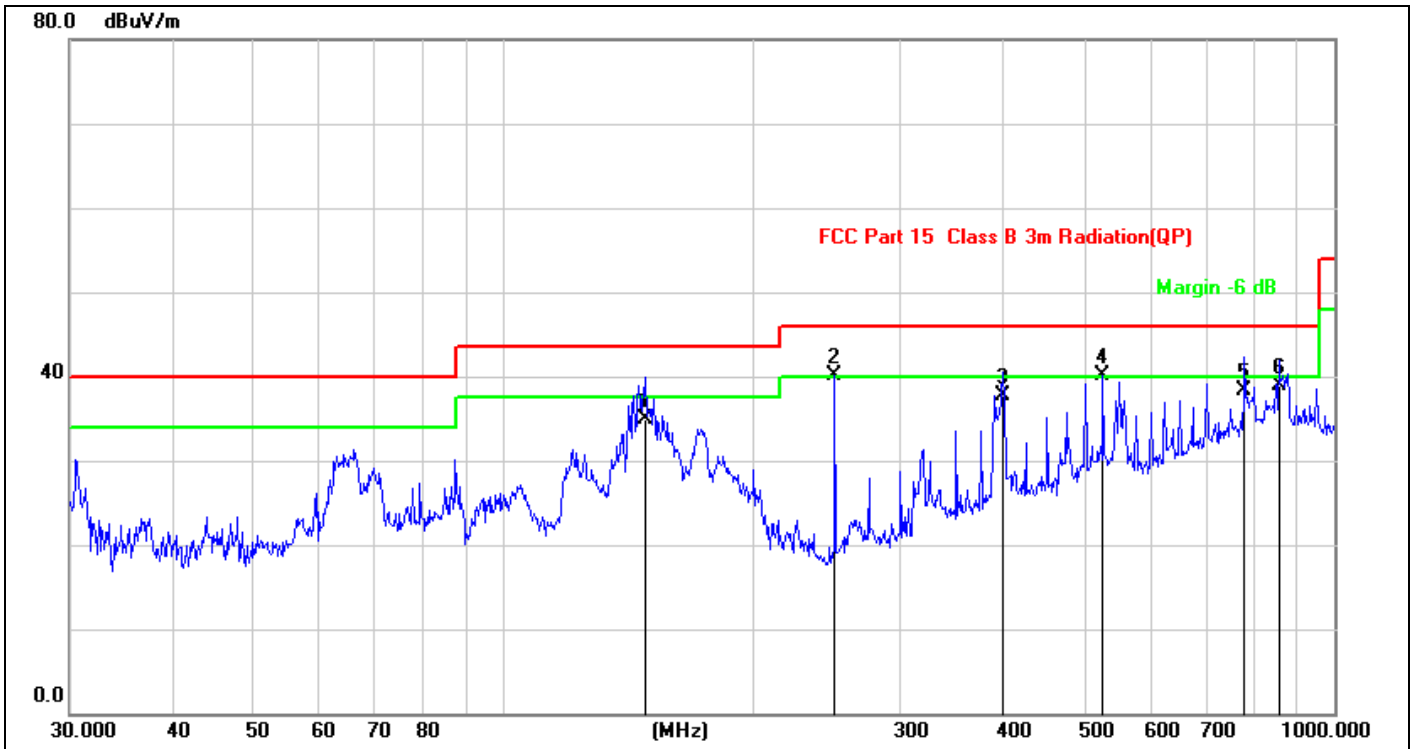
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	136.4598	40.69	-11.85	28.84	43.50	-14.66	QP			
2	173.2051	46.62	-11.32	35.30	43.50	-8.20	QP			
3	197.2001	48.18	-11.19	36.99	43.50	-6.51	QP			
4	319.9370	41.05	-6.57	34.48	46.00	-11.52	QP			
5 *	389.3549	44.14	-3.45	40.69	46.00	-5.31	QP			
6	779.6068	34.58	5.28	39.86	46.00	-6.14	QP			





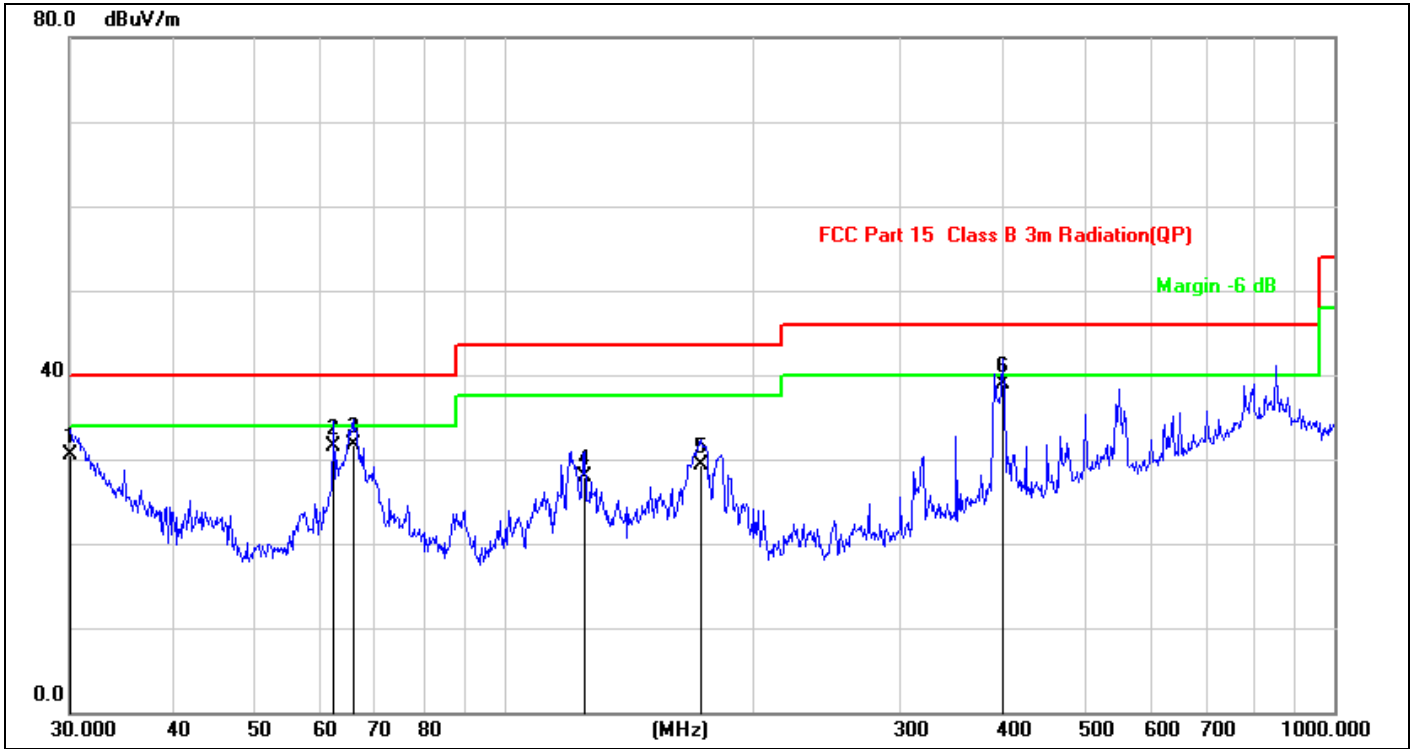
Site:	ChamberA-2	Antenna::Horizontal	Temperature(C):26(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%):54%
EUT:	Dot Matrix Printer	Test Time:	2023/02/16
M/N.:	PRN-7	Power Rating:	AC 120V/60Hz
Mode:	LAN port print	Test Engineer:	Zero
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	147.9214	45.97	-11.37	34.60	43.50	-8.90	QP			
2	181.2834	47.56	-11.46	36.10	43.50	-7.40	QP			
3 !	250.3012	50.37	-9.17	41.20	46.00	-4.80	QP			
4	399.0302	39.73	-2.93	36.80	46.00	-9.20	QP			
5	779.6068	34.32	5.28	39.60	46.00	-6.40	QP			
6 *	857.0247	35.59	6.51	42.10	46.00	-3.90	QP			



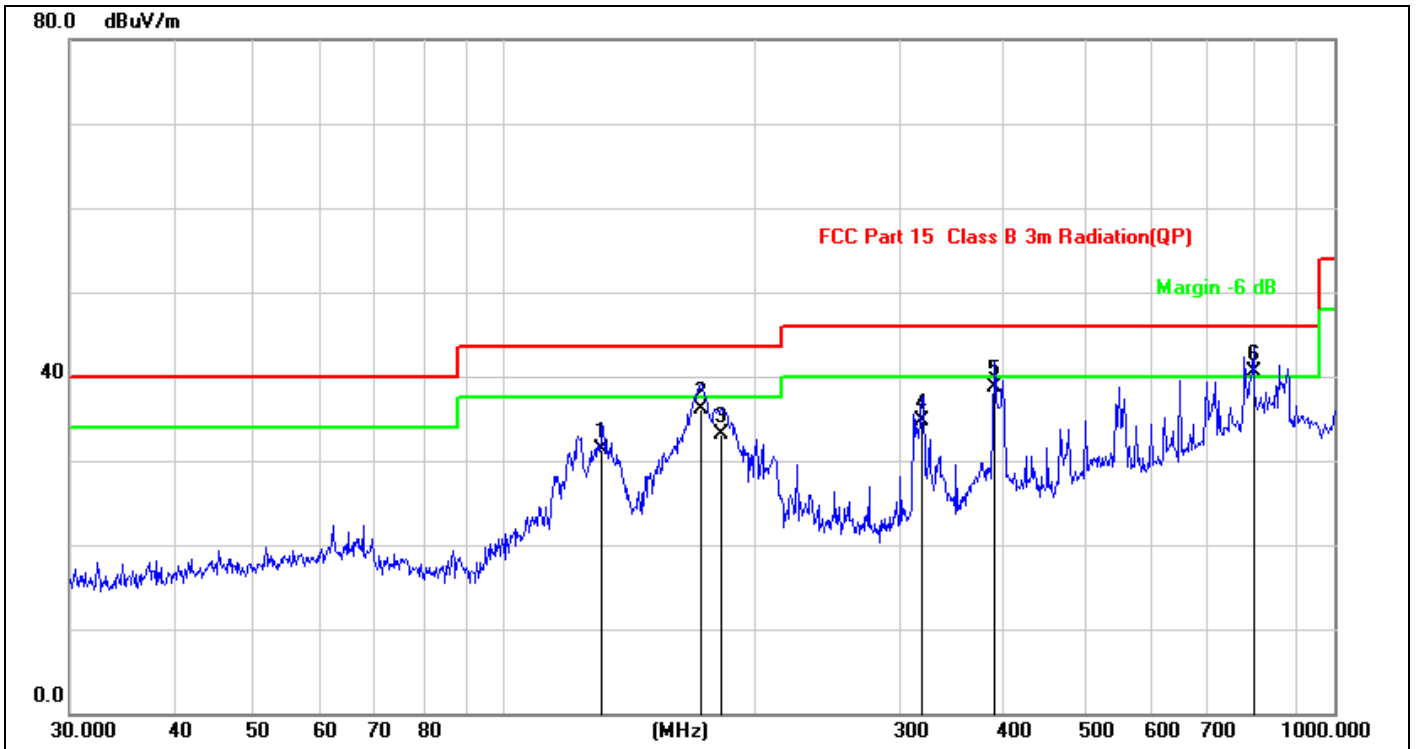
Site:	ChamberA-2	Antenna::	Vertical	Temperature(C):	26(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)	Humidity(%):	54%	Test Time:	2023/02/16
EUT:	Dot Matrix Printer	Power Rating:	AC 120V/60Hz	Test Engineer:	Zero
M/N.:	PRN-7				
Mode:	LAN port print				
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	147.9214	46.33	-11.37	34.96	43.50	-8.54	QP			
2 !	250.3012	49.23	-9.18	40.05	46.00	-5.95	QP			
3	399.0302	40.58	-2.93	37.65	46.00	-8.35	QP			
4 *	526.3967	41.04	-0.92	40.12	46.00	-5.88	QP			
5	779.6068	33.08	5.28	38.36	46.00	-7.64	QP			
6	857.0247	32.45	6.51	38.96	46.00	-7.04	QP			



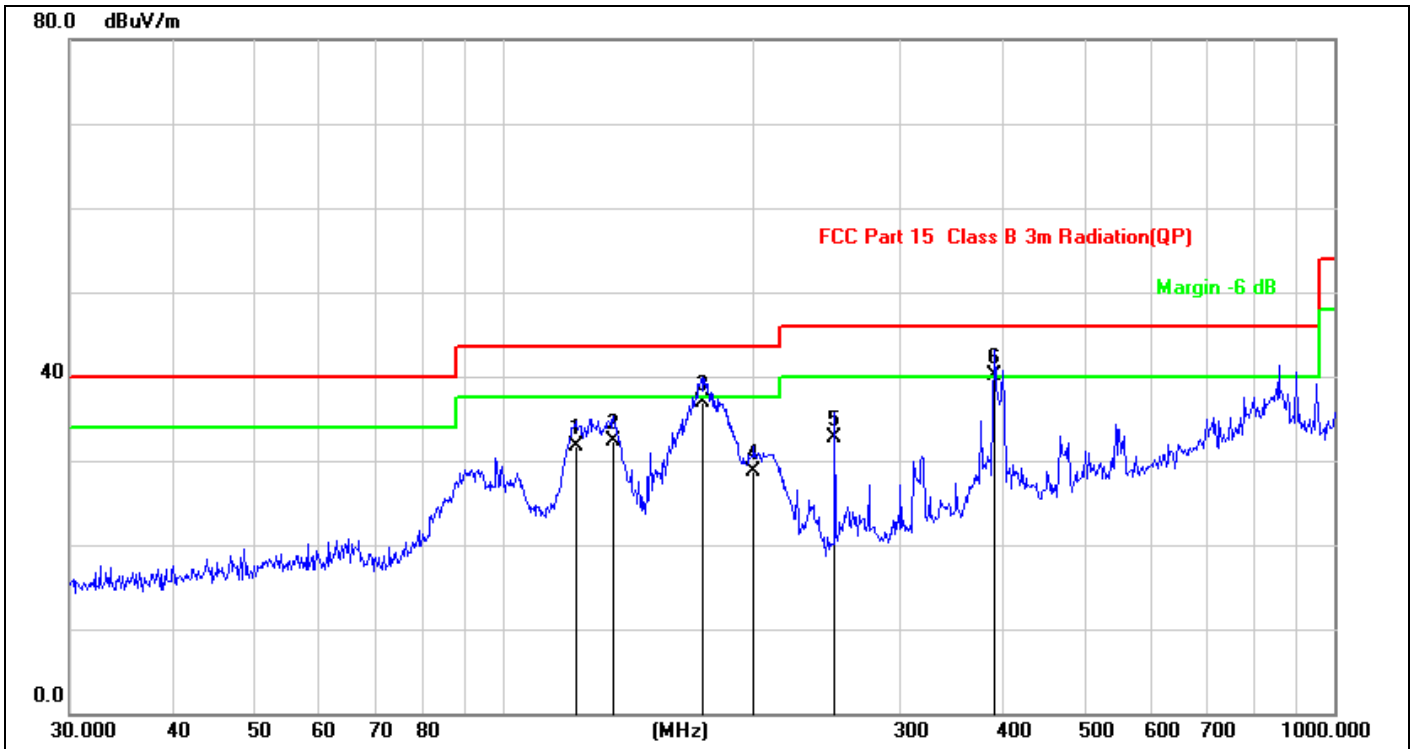
Site:	ChamberA-2	Antenna: Vertical	Temperature(C): 26(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)	Test Time:	Humidity(%): 54%
EUT:	Dot Matrix Printer	Power Rating:	AC 120V/60Hz
M/N.:	PRN-7	Test Engineer:	Zero
Mode:	LTP port print		
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	30.1054	42.50	-11.99	30.51	40.00	-9.49	QP			
2	62.4314	40.51	-8.96	31.55	40.00	-8.45	QP			
3	65.8031	41.04	-9.36	31.68	40.00	-8.32	QP			
4	125.0066	39.68	-11.73	27.95	43.50	-15.55	QP			
5	172.5988	40.69	-11.34	29.35	43.50	-14.15	QP			
6 *	399.0302	41.88	-2.93	38.95	46.00	-7.05	QP			



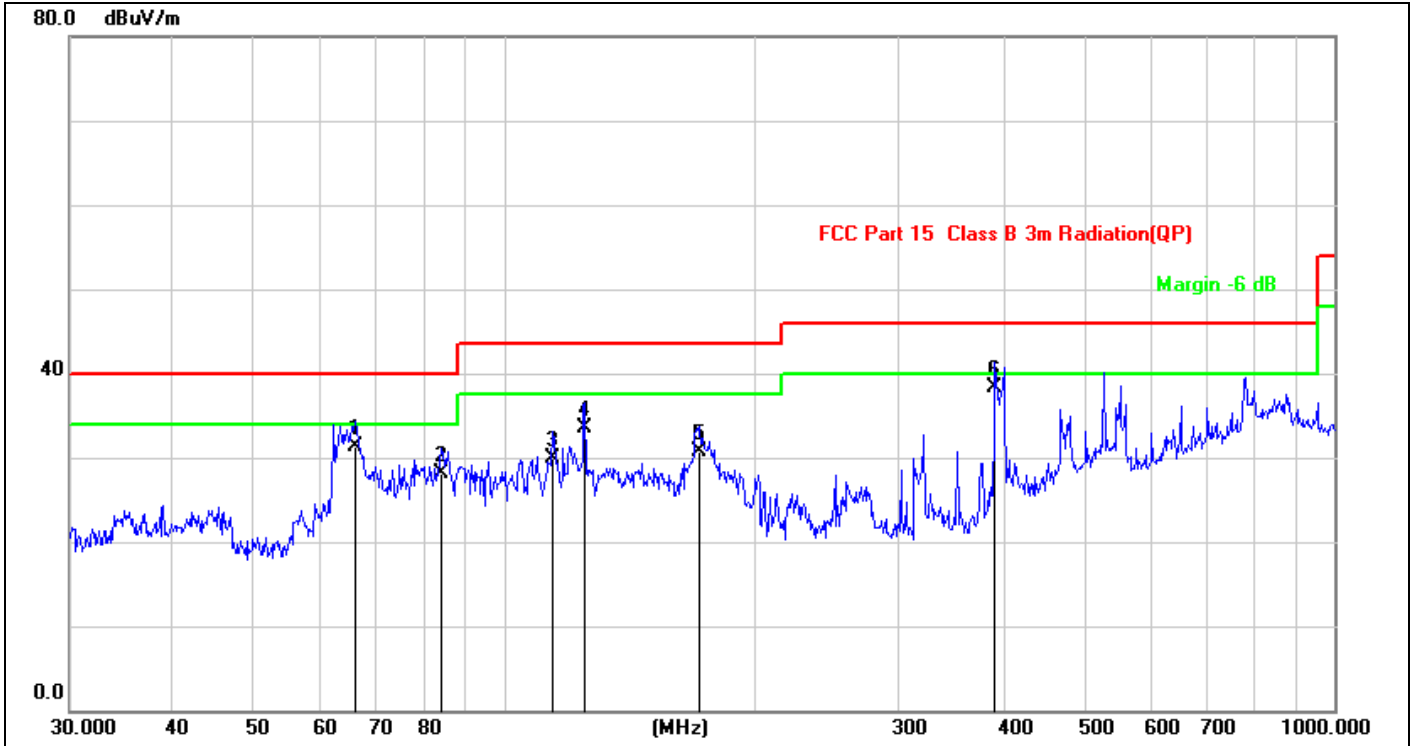
Site:	ChamberA-2	Antenna::Horizontal	Temperature(C):26(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%):54%
EUT:	Dot Matrix Printer	Test Time:	2023/02/16
M/N.:	PRN-7	Power Rating:	AC 120V/60Hz
Mode:	LTP port print	Test Engineer:	Zero
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	131.2965	42.91	-11.65	31.26	43.50	-12.24	QP			
2	172.5988	47.44	-11.34	36.10	43.50	-7.40	QP			
3	182.5592	44.30	-11.27	33.03	43.50	-10.47	QP			
4	318.8170	41.33	-6.60	34.73	46.00	-11.27	QP			
5	389.3549	42.16	-3.45	38.71	46.00	-7.29	QP			
6 *	798.9797	34.42	6.13	40.55	46.00	-5.45	QP			



Site:	ChamberA-2	Antenna::Horizontal	Temperature(C):26(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%):54%
EUT:	Dot Matrix Printer	Test Time:	2023/02/16
M/N.:	PRN-7	Power Rating:	AC 120V/60Hz
Mode:	Com port print	Test Engineer:	Zero
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	121.9755	43.24	-11.54	31.70	43.50	-11.80	QP			
2	135.5062	44.12	-11.76	32.36	43.50	-11.14	QP			
3	173.2051	48.27	-11.32	36.95	43.50	-6.55	QP			
4	199.9856	39.99	-11.29	28.70	43.50	-14.80	QP			
5	250.3012	41.86	-9.18	32.68	46.00	-13.32	QP			
6 *	389.3549	43.56	-3.45	40.11	46.00	-5.89	QP			



Site:	ChamberA-2	Antenna::	Vertical	Temperature(C):	26(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)			Humidity(%):	54%
EUT:	Dot Matrix Printer	Test Time:	2023/02/15		
M/N.:	PRN-7	Power Rating:	AC 120V/60Hz		
Mode:	Com port print	Test Engineer:	Zero		
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	66.2661	40.87	-9.51	31.36	40.00	-8.64	QP			
2	84.1100	40.69	-12.64	28.05	40.00	-11.95	QP			
3	114.1137	41.64	-11.65	29.99	43.50	-13.51	QP			
4	125.0066	45.31	-11.73	33.58	43.50	-9.92	QP			
5	171.3925	42.09	-11.41	30.68	43.50	-12.82	QP			
6 *	389.3548	41.77	-3.45	38.32	46.00	-7.68	QP			

## 6. PHOTOGRAPHS

### 6.1. Photos of Power Line Conducted Emission



### 6.2. Photos of Radiation Emission Measurement



## APPENDIX A: Warning Labels

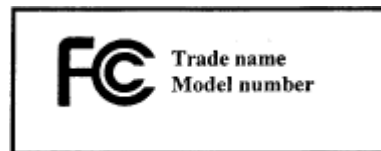
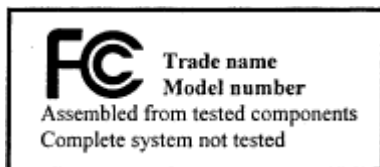
### Label Requirements

A Class B digital device subject to Declaration of Conformity of FCC shall carry a label which includes the following statement:

**\*\*\* WARNING \*\*\***

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The sample label shown shall be permanently affixed at a conspicuous location on the device and be readily visible to the user at the time of purchase.





## APPENDIX B: Warning Statement

### Statement Requirements

The operators' manual for a Class B digital device shall contain the following statements or their equivalent:

#### **\*\*\* WARNING \*\*\***

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equivalent.

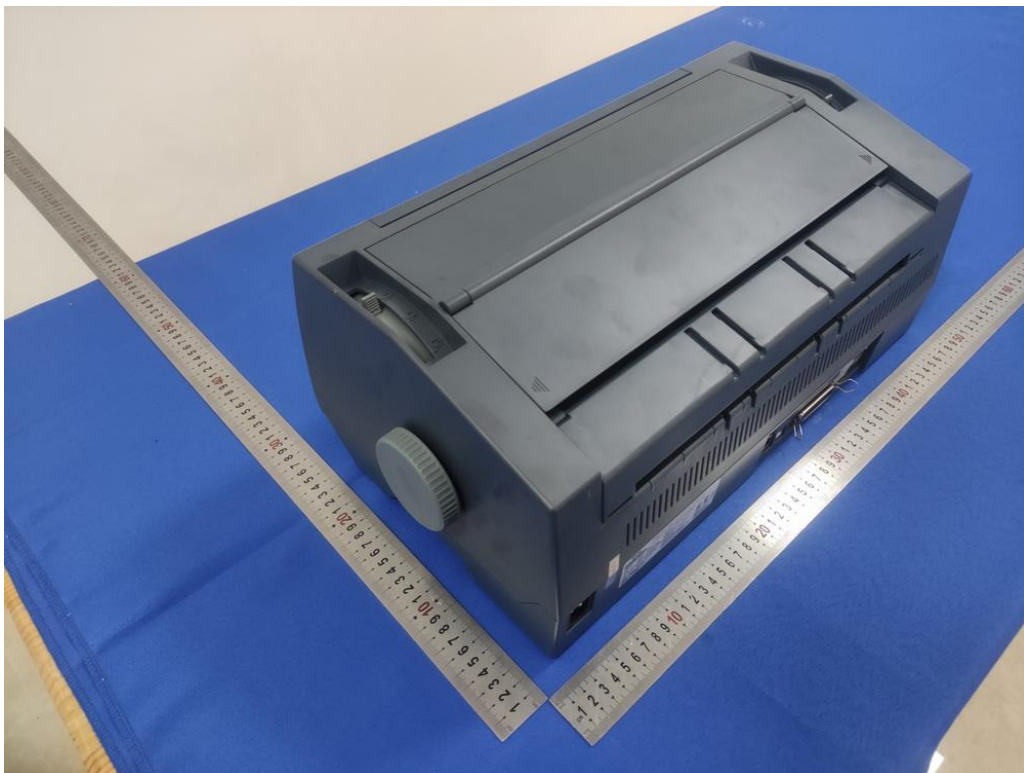
\*\*\*\*\*

If the EUT was tested with special shielded cables the operators manual for such product shall also contain the following statements or their equivalent:

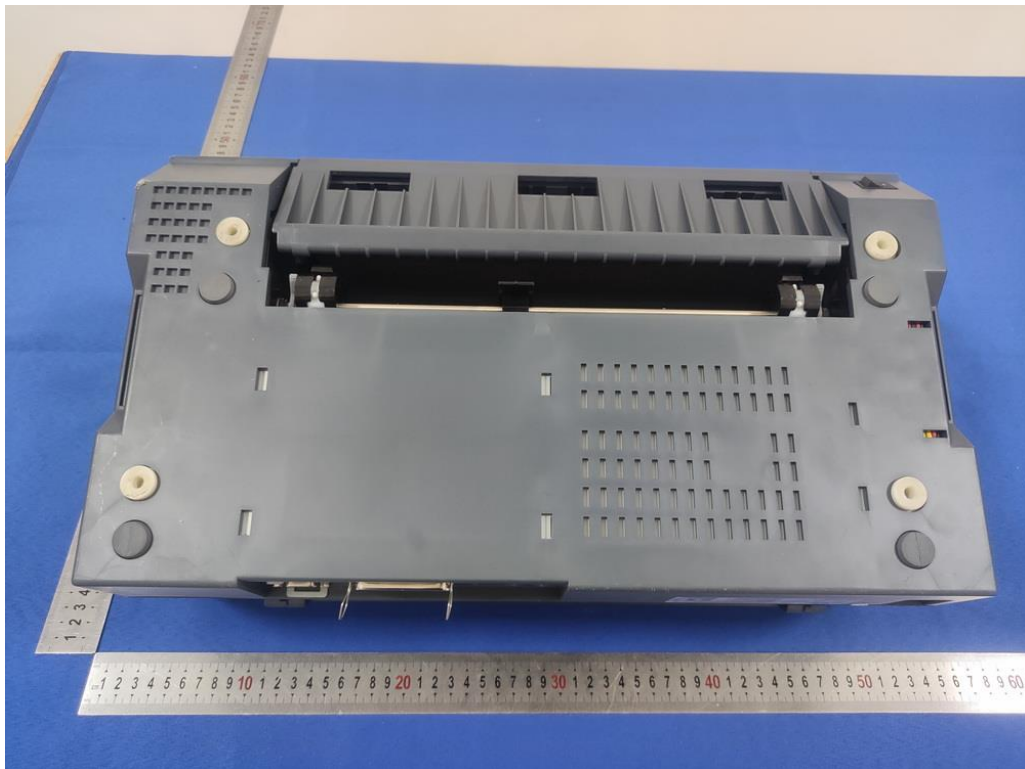
Shielded interface cables and/or AC power cord, if any, must be used in order to comply with the emission limits.

# APPENDIX C: Photos of EUT

## External Photos





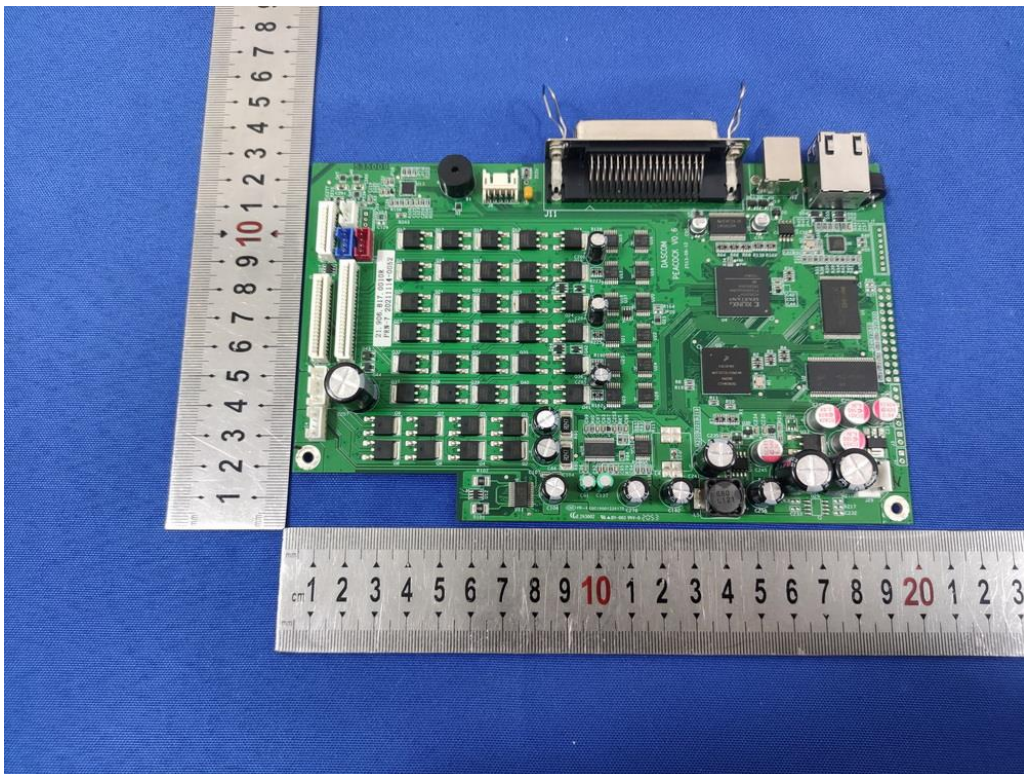
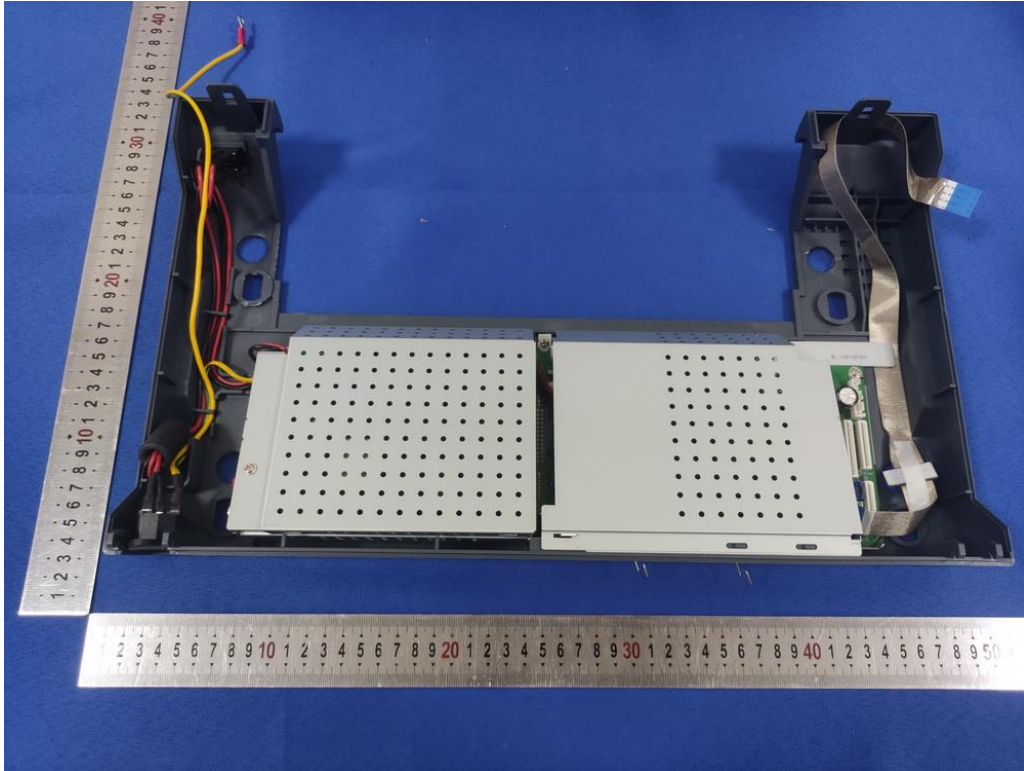




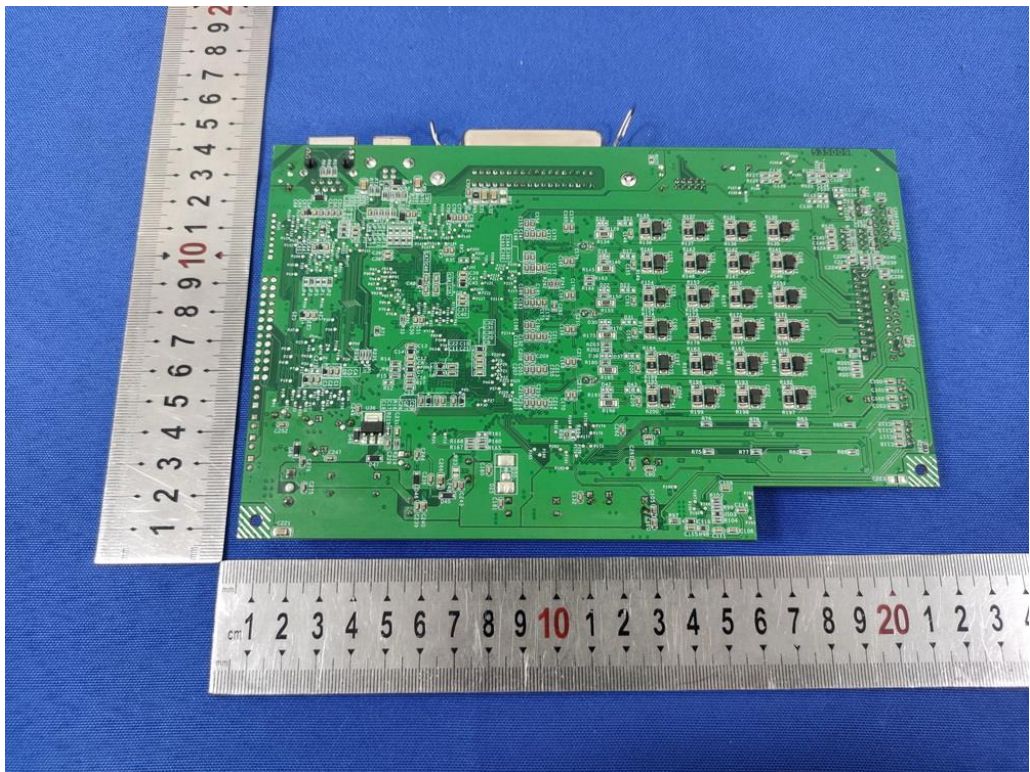
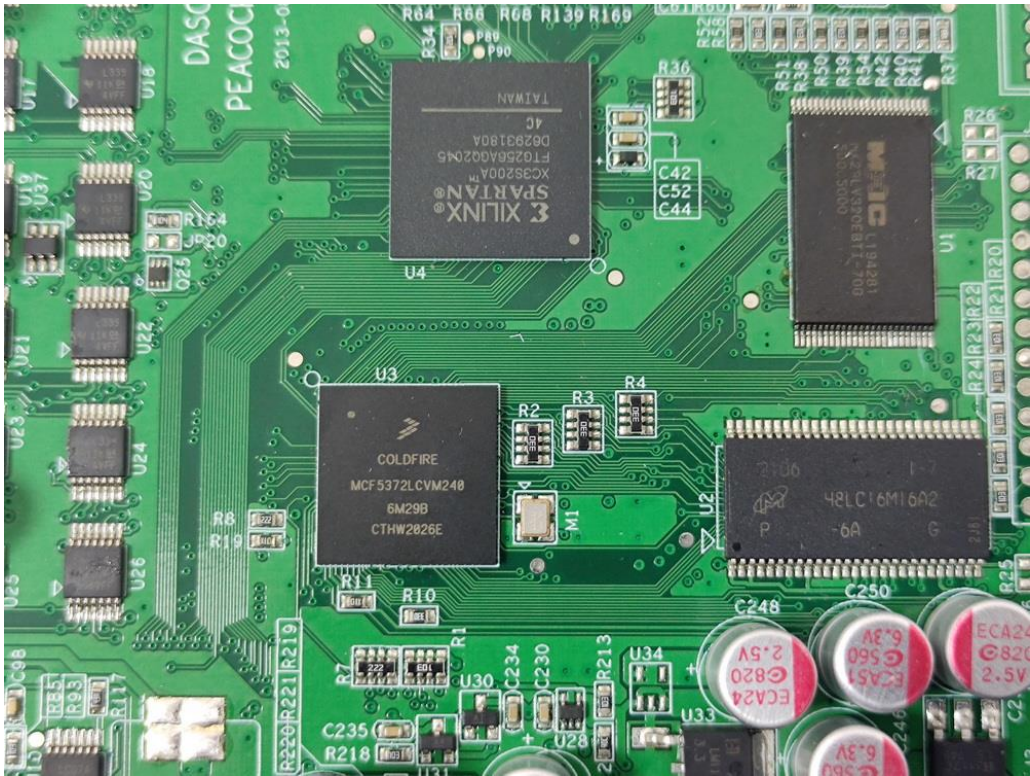




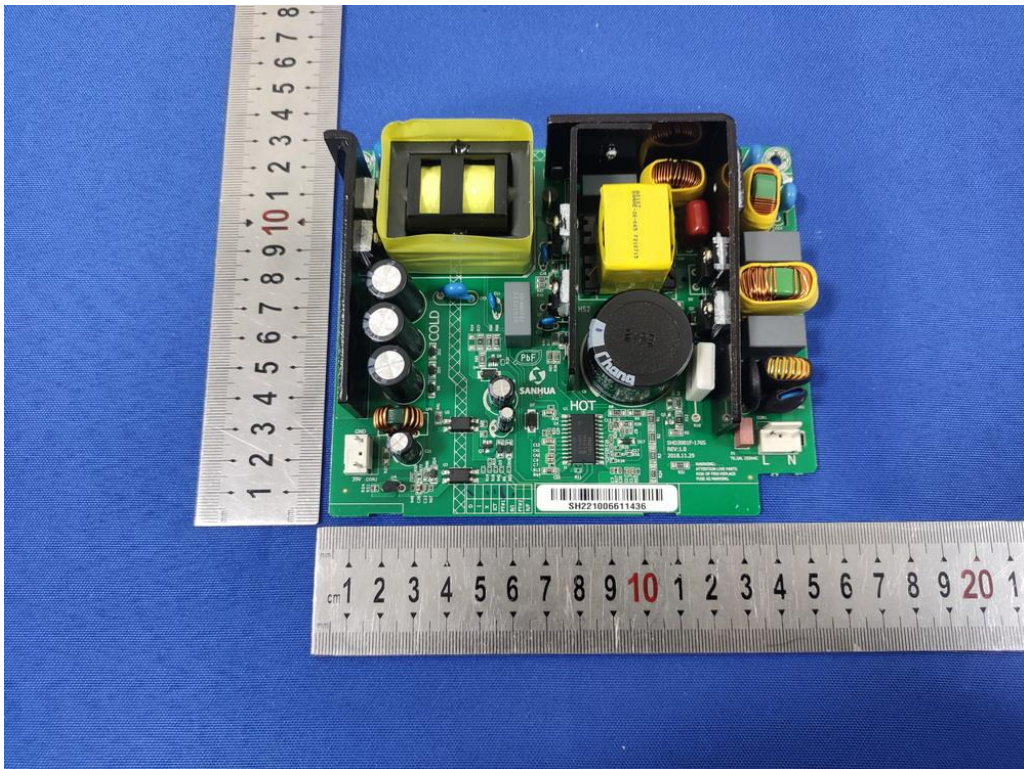
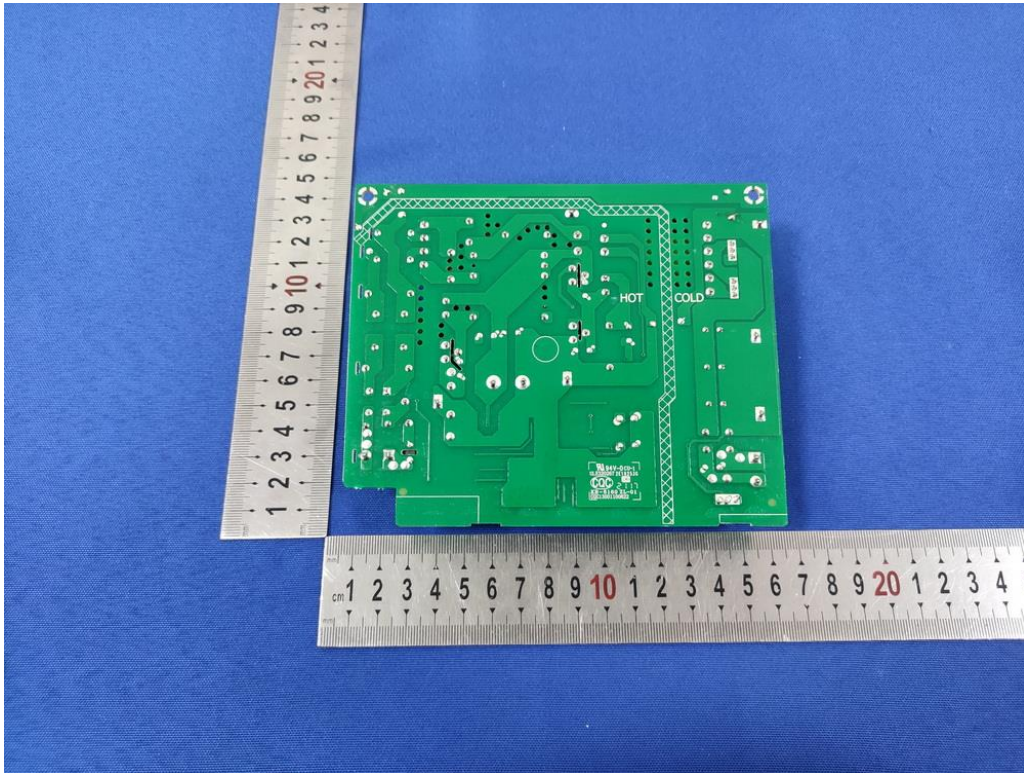




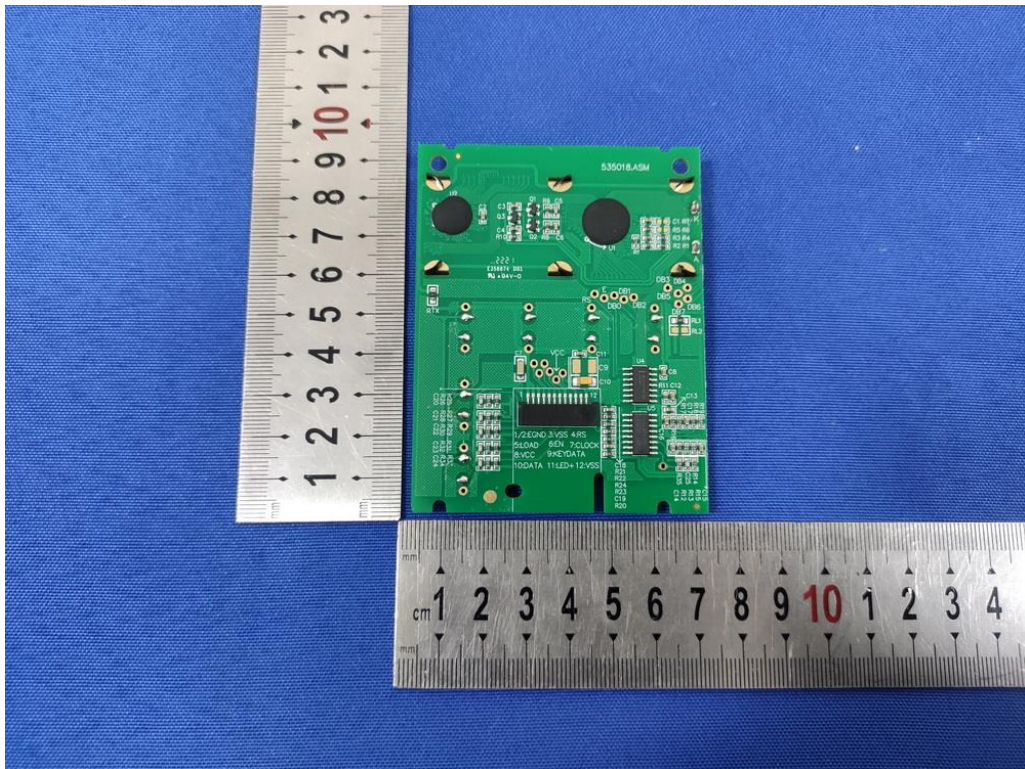
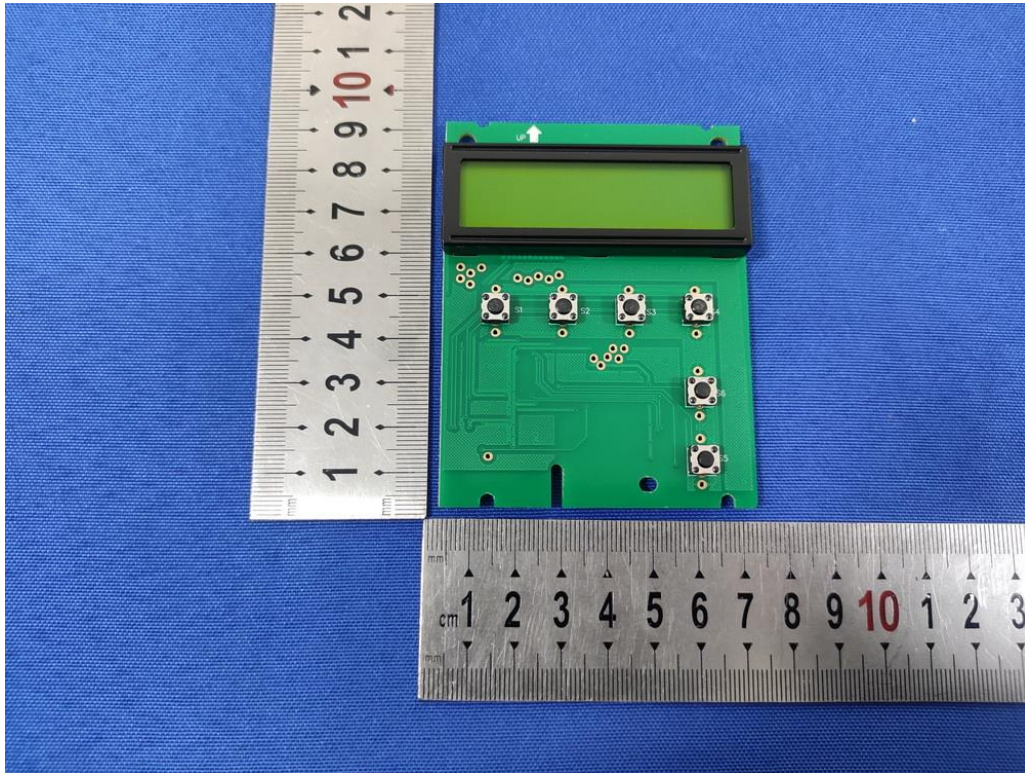




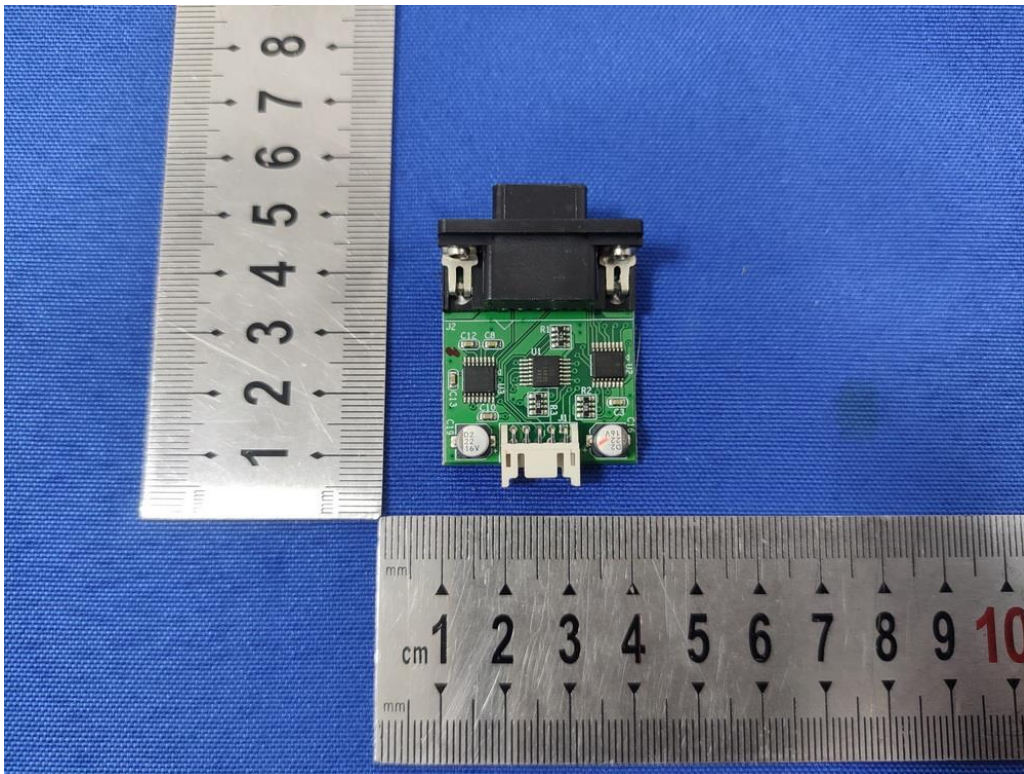
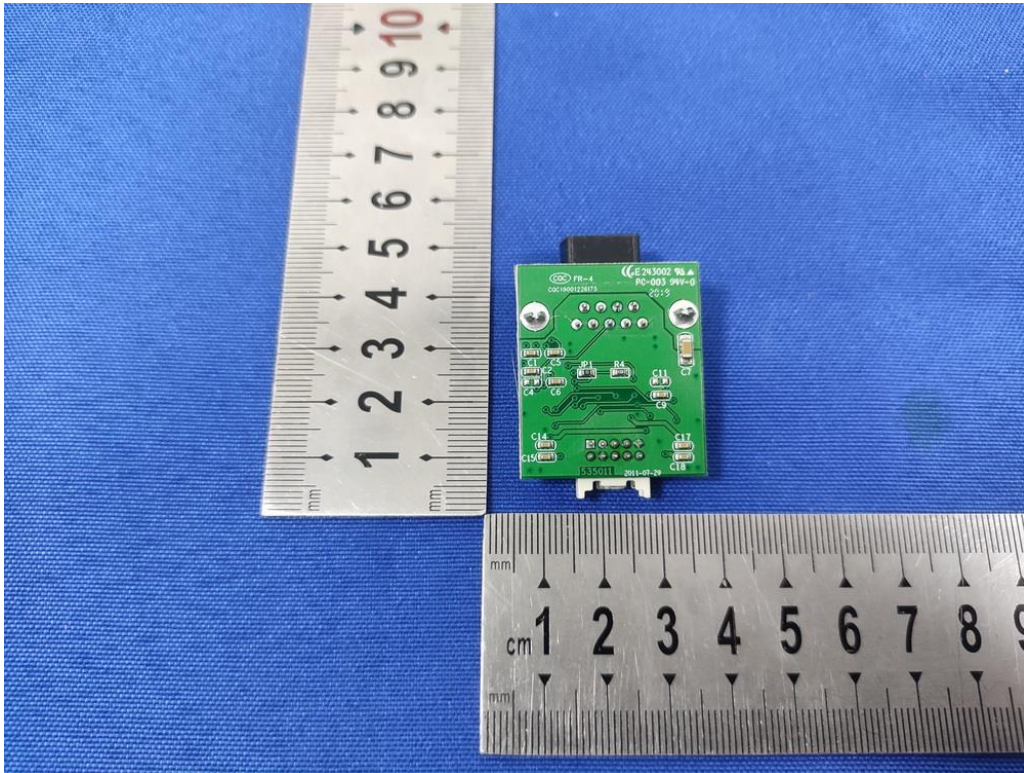




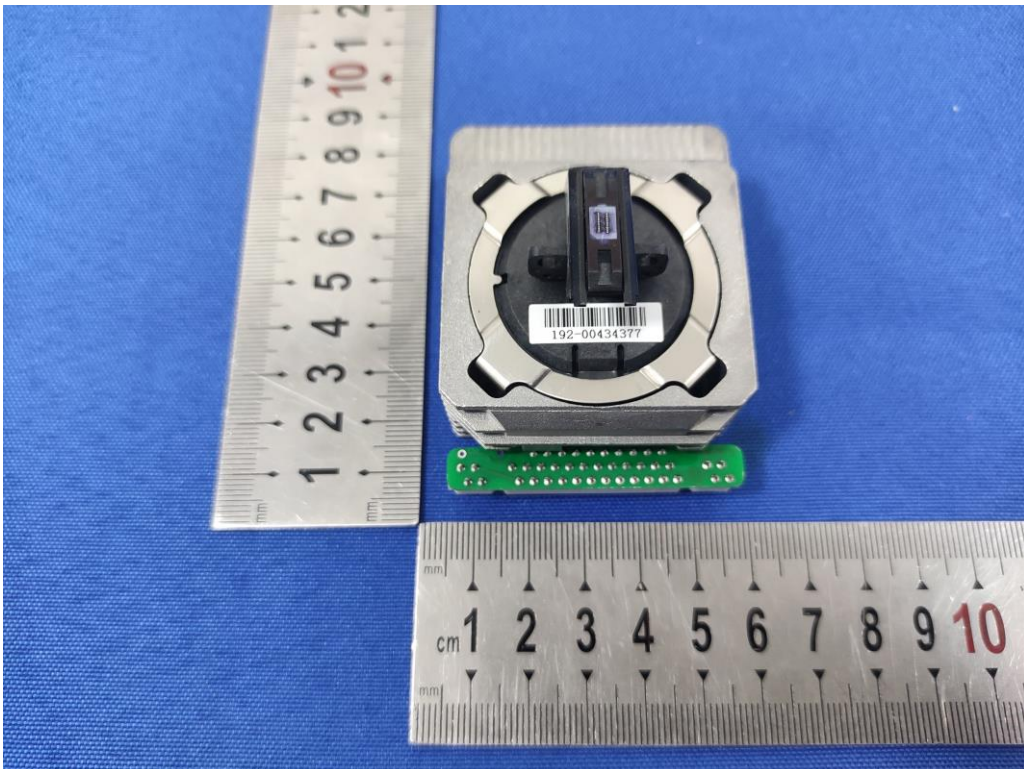
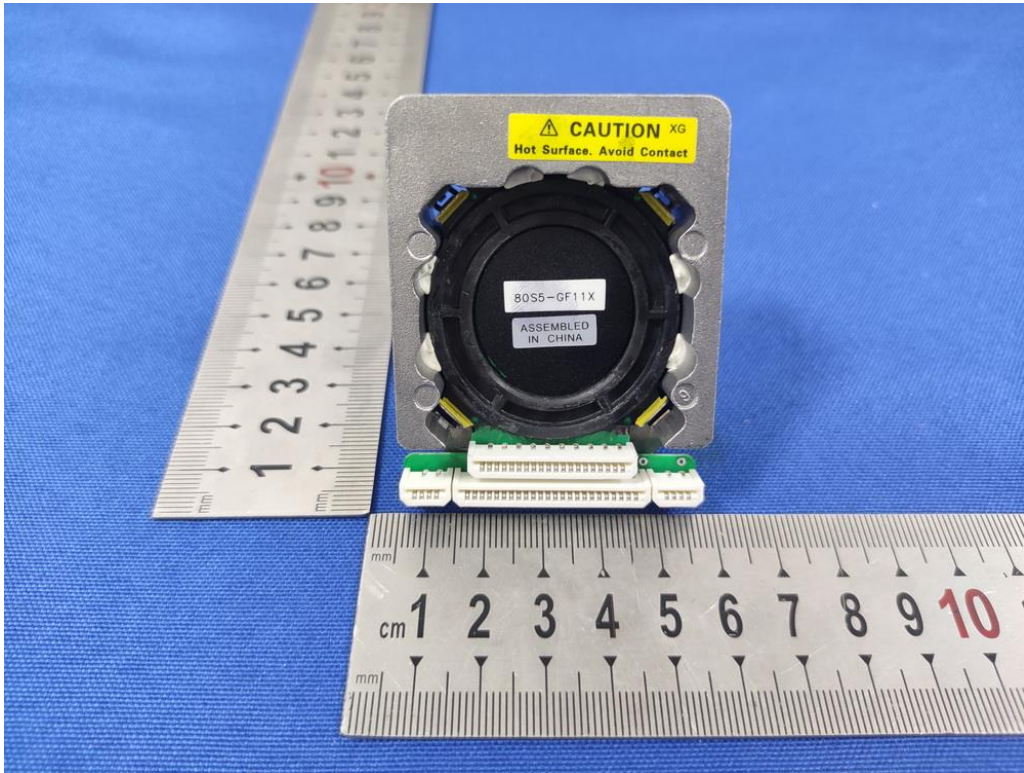




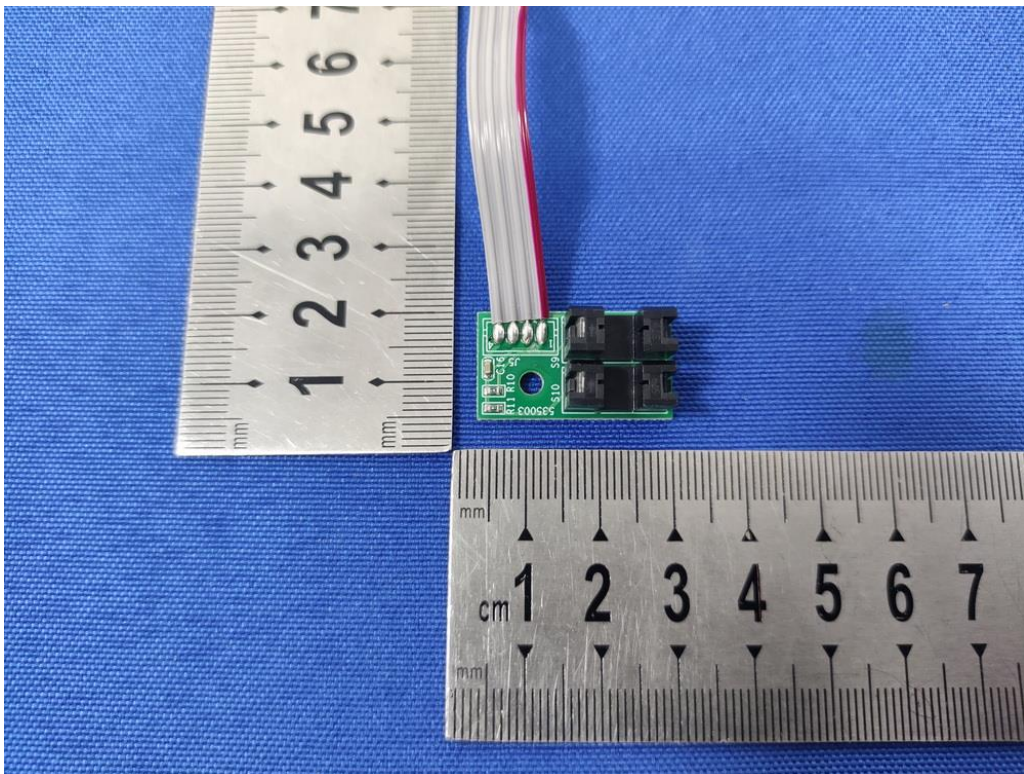
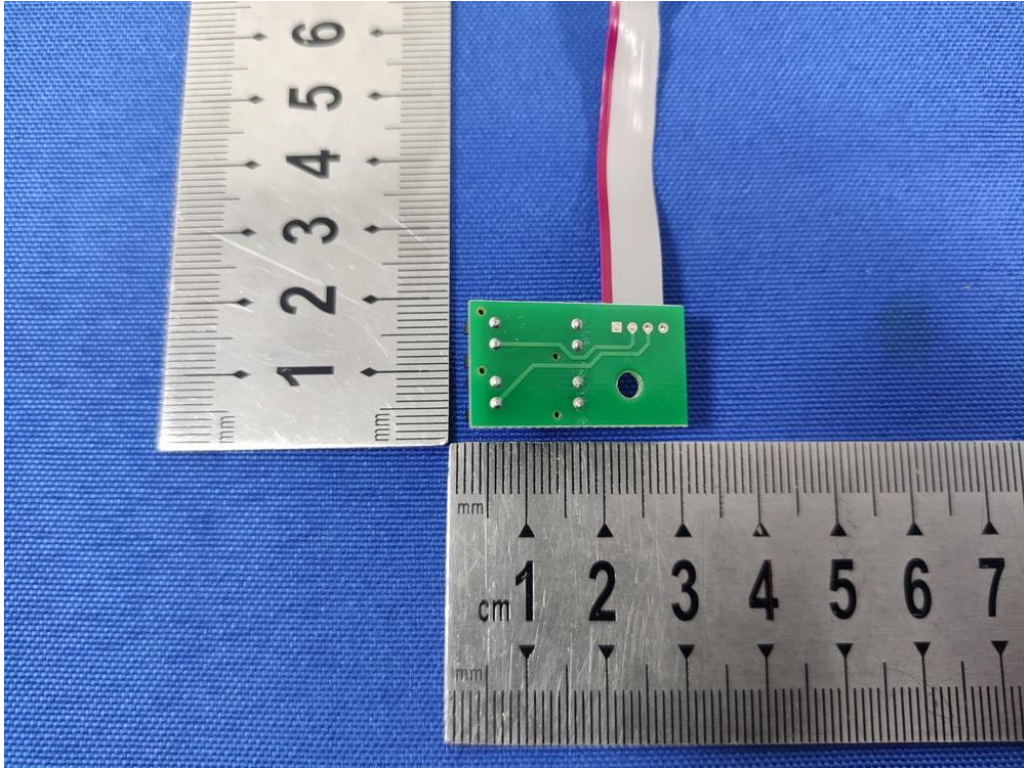












---The end of report---