

Prüfbericht-Nr.: <i>Test Report No.:</i>	17045232 001	Auftrags-Nr.: <i>Order No.:</i>	164026846	Seite 1 von 32 <i>Page 1 of 32</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	17.12.2014	
Auftraggeber: <i>Client:</i>	Jiangmen Dascom Computer Peripherals Co., Ltd., No. 399, Jin Xing Road, Jiang Hai District, Jiangmen City, Guangdong Province 529040, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Dot Matrix Printer			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	1125+, 1145 (Tally/DASCOM)			
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification			
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15: Subpart B Section 15.107 FCC CFR47 Part 15: Subpart B Section 15.109			
Wareneingangsdatum: <i>Date of receipt:</i>	03.12.2014			
Prüfmuster-Nr.: <i>Test sample No.:</i>	KAD141203007S01			
Prüfzeitraum: <i>Testing period:</i>	04.12.2014 - 05.12.2014			
Ort der Prüfung: <i>Place of testing:</i>	Dongguan EMTEK Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by: 		kontrolliert von / reviewed by: 		
23.01.2015	Winnie Hou/Project Manager	23.01.2015	Owen Tian/Technical Certifier	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other:		FCC ID: Z7OTD11450		
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient 5 = poor N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

V04

Prüfbericht - Nr.: 17045232 001
Test Report No.

Seite 2 von 32
Page 2 of 32

TEST SUMMARY

5.1.1 CONDUCTED EMISSION

RESULT: Pass

5.2.1 RADIATED EMISSIONS

RESULT: Pass

Contents

1.	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS	4
2.	TEST SITES	4
2.1	TEST FACILITIES	4
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	5
2.3	TRACEABILITY	5
2.4	CALIBRATION	5
2.5	MEASUREMENT UNCERTAINTY.....	6
2.6	LOCATION OF ORIGINAL DATA.....	6
2.7	STATUS OF FACILITY USED FOR TESTING.....	6
3.	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE.....	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	7
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	7
3.5	SUBMITTED DOCUMENTS	7
4.	TEST SET-UP AND OPERATION MODES	8
4.1	PRINCIPLE OF CONFIGURATION SELECTION.....	8
4.2	TEST OPERATION AND TEST SOFTWARE	8
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	8
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	8
4.5	TEST SETUP DIAGRAM	9
5.	TEST RESULTS EMISSION	10
5.1	EMISSION IN THE FREQUENCY RANGE UP TO 30 MHz	10
5.1.1	<i>Conducted Emission</i>	<i>10</i>
5.2	EMISSION IN THE FREQUENCY RANGE ABOVE 30 MHz	17
5.2.1	<i>Radiated emissions.....</i>	<i>17</i>
6.	PHOTOGRAPHS OF THE TEST SET-UP	30
7.	LIST OF TABLES	32
8.	LIST OF PHOTOGRAPHS	32

1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Dongguan EMTEK Co., Ltd.

(FCC Registration No.: 247565)

No. 281, Guantai Road, Nancheng District, Dongguan,
Guangdong, 523077, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Conducted Emission				
Test Receiver	Rohde&Schwarz	ESCS30	100018	2015-05-16
L.I.S.N.	Rohde&Schwarz	ENV216	100017	2015-05-16
RF Switching Unit	CDS	RSU-M2	38401	2015-05-16
Radiated Emission				
Test Receiver	Rohde & Schwarz	ESCI	1166.5950.03	2015-05-16
Bilog Antenna	Schwarzbeck	VULB9163	000141	2015-05-16
Power Amplifier	CDS	RSU-M352	818	2015-05-16
Power Amplifier	HP	8447F	OPT H64	2015-05-16
Color Monitor	SUNSP0	SP-140A	N/A	2015-05-16
Single Line Filter	JIANLI	XL-3	N/A	2015-05-16
Single Phase Power Line Filter	JIANLI	DL-2X100B	N/A	2015-05-16
3 Phase Power Line Filter	JIANLI	DL-4X100B	N/A	2015-05-16
DC Power Filter	JIANLI	DL-2X50B	N/A	2015-05-16
Cable	Schwarzbeck	PLF-100	549489	2015-05-16
Cable	Rosenberger	CIL02	A0783566	2015-05-16
Cable	Rosenberger	RG 233/U	525178	2015-05-16

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	$< \pm 2.40 \text{ dB}$
Radiated Emission (30 – 1000MHz)	$< \pm 3.43 \text{ dB}$
Radiated Emission (1 – 2GHz)	$< \pm 4.46 \text{ dB}$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Dongguan EMTEK Co., Ltd. test facility located at No. 281, Guantai Road, Nancheng District, Dongguan, Guangdong, 523077, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUTs are dot matrix printer.
Two models are identical except the model name.
For more information refer to the manufacturer's Circuit diagram & Instruction Manual.

3.2 Ratings and System Details

Rated voltage: AC 100-120V, 50/60Hz
Input current: 1.5A
Protection class: I

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. USB port input
 - 2. Serial port input
 - 3. Parallel port input
- B. Stand by
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

According to clause 3.1, all tests were applied on model 1125+ only.

4.3 Special Accessories and Auxiliary Equipment

The EUTs were tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
AC Input port	2 cores, non-shielded port	AC Input Power Port
USB port	4 cores, 3m, non-shielded port	Signal Port
Parallel port	25 cores, 3m, non-shielded port	Signal Port
Serial port	9 cores, 3m, non-shielded port	Signal Port

The EUTs were tested with following accessories:

Accessory	Manufacturer	M/N	Serial No.
PC	Lenovo	ThinkCentre M8400t	EA08228210
LCD Monitor	DELL	E1909WF	N/A
Mouse	DELL	M-UAR DEL7	XN966
Keyboard	DELL	L30U	ON277F

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

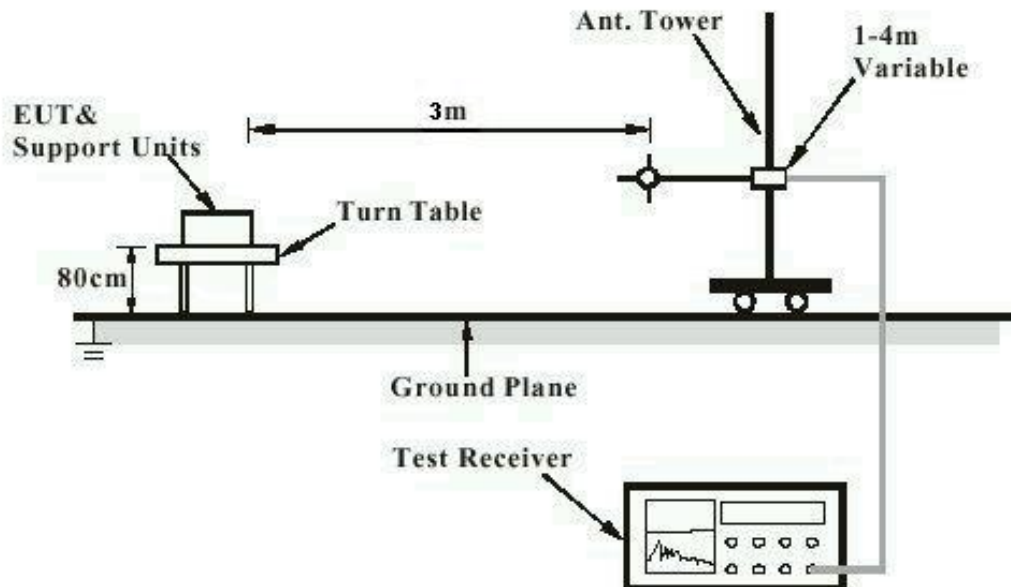
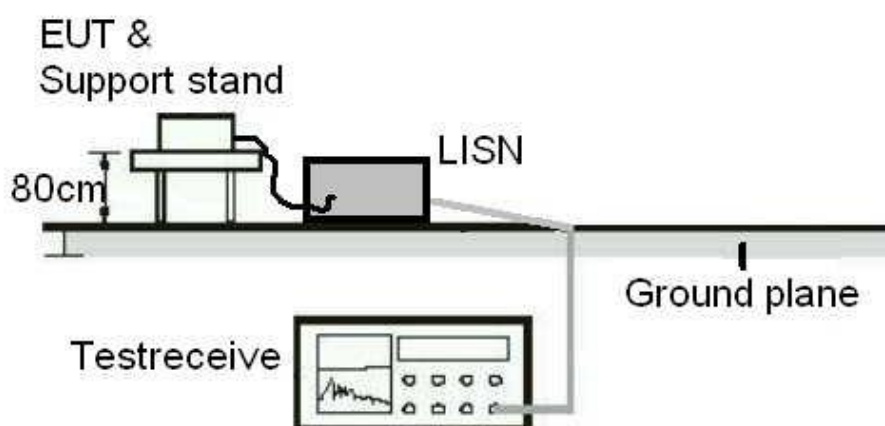


Diagram of Measurement Equipment Configuration for Conduction Measurement



5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted Emission

RESULT:**Pass**

Date of testing	:	2014-12-05
Test standard	:	FCC Part15 Subpart B Section 15.107(a)
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part15 Subpart B Section 15.107(a)
Kind of test site	:	Shield room

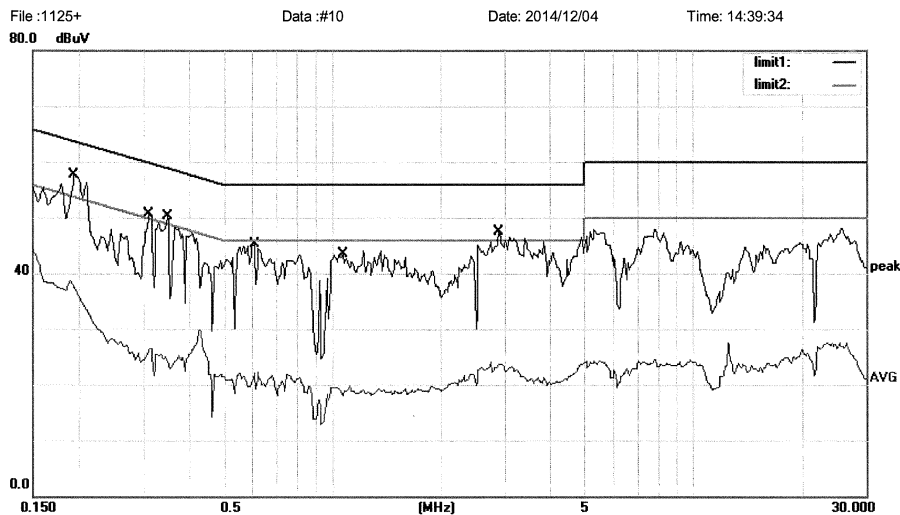
Test setup

Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Earthing	:	Not connected
Ambient temperature	:	24°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

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Conducted Emission Measurement

 Site site #1
 Limit: (CE)FCC PART 15 class B_QP
 EUT: Dot Matrix Printer
 M/N: 1125+
 Mode: Printing
 Note: USB interface connection

 Phase: **L1**
 Power: AC 120V/60Hz
 Temperature: 24
 Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1950	54.40	0.00	54.40	63.82	-9.42	QP	
2		0.1950	38.77	0.00	38.77	53.82	-15.05	AVG	
3		0.3100	47.60	0.00	47.60	59.97	-12.37	QP	
4		0.3100	26.53	0.00	26.53	49.97	-23.44	AVG	
5		0.3500	48.30	0.00	48.30	58.96	-10.66	QP	
6		0.3500	25.01	0.00	25.01	48.96	-23.95	AVG	
7		0.6100	42.90	0.00	42.90	56.00	-13.10	QP	
8		0.6100	22.36	0.00	22.36	46.00	-23.64	AVG	
9		1.0750	40.50	0.00	40.50	56.00	-15.50	QP	
10		1.0750	19.58	0.00	19.58	46.00	-26.42	AVG	
11		2.8900	44.20	0.00	44.20	56.00	-11.80	QP	
12		2.8900	24.09	0.00	24.09	46.00	-21.91	AVG	

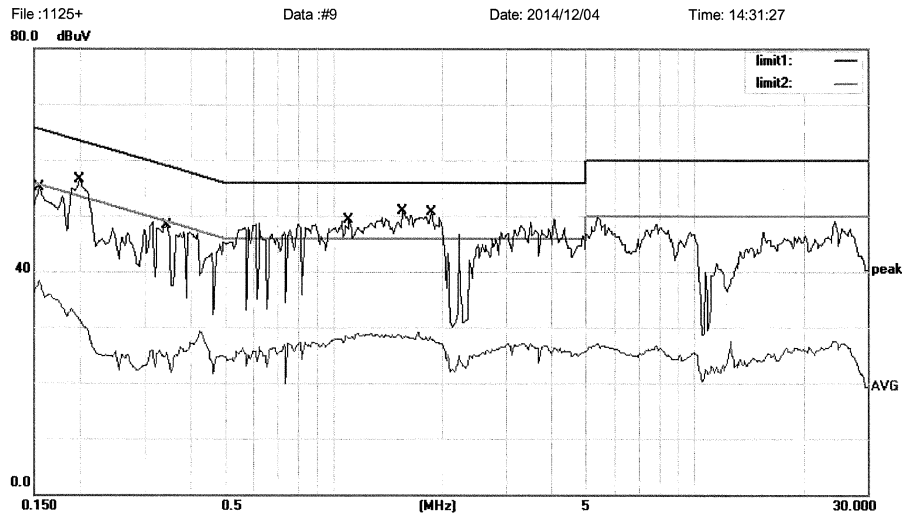
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File :1125+ Data :#10

Page: 1

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Conducted Emission Measurement

 Site site #1
 Limit: (CE)FCC PART 15 class B_QP
 EUT: Dot Matrix Printer
 M/N: 1125+
 Mode: Printing
 Note: USB interface connection

 Phase: **N**
 Power: AC 120V/60Hz
 Temperature: 24
 Humidity: 55 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1550	52.90	0.00	52.90	65.73	-12.83	QP	
2	0.1550	38.28	0.00	38.28	55.73	-17.45	AVG	
3	0.2000	53.10	0.00	53.10	63.61	-10.51	QP	
4	0.2000	32.20	0.00	32.20	53.61	-21.41	AVG	
5	0.3450	45.70	0.00	45.70	59.08	-13.38	QP	
6	0.3450	25.49	0.00	25.49	49.08	-23.59	AVG	
7	1.1100	46.50	0.00	46.50	56.00	-9.50	QP	
8	1.1100	28.90	0.00	28.90	46.00	-17.10	AVG	
9 *	1.5450	48.20	0.00	48.20	56.00	-7.80	QP	
10	1.5450	28.71	0.00	28.71	46.00	-17.29	AVG	
11	1.8650	47.30	0.00	47.30	56.00	-8.70	QP	
12	1.8650	28.23	0.00	28.23	46.00	-17.77	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File :1125+Data :#9

Page: 1

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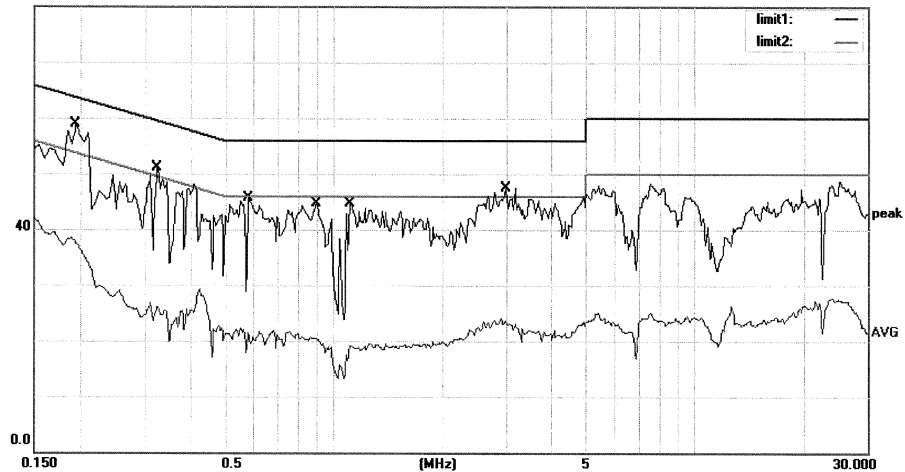
Conducted Emission Measurement

 File :1125+
 80.0 dBuV

Data :#7

Date: 2014/12/04

Time: 14:20:10



Site site #1

 Phase: **L1**

Temperature: 24

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode: Printing

Note: Parallel interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1950	54.20	0.00	54.20	63.82	-9.62	QP	
2		0.1950	38.46	0.00	38.46	53.82	-15.36	AVG	
3		0.3250	48.30	0.00	48.30	59.58	-11.28	QP	
4		0.3250	26.95	0.00	26.95	49.58	-22.63	AVG	
5		0.5800	42.50	0.00	42.50	56.00	-13.50	QP	
6		0.5800	22.01	0.00	22.01	46.00	-23.99	AVG	
7		0.9000	41.10	0.00	41.10	56.00	-14.90	QP	
8		0.9000	20.50	0.00	20.50	46.00	-25.50	AVG	
9		1.1150	41.80	0.00	41.80	56.00	-14.20	QP	
10		1.1150	19.06	0.00	19.06	46.00	-26.94	AVG	
11		2.9900	43.60	0.00	43.60	56.00	-12.40	QP	
12		2.9900	23.77	0.00	23.77	46.00	-22.23	AVG	

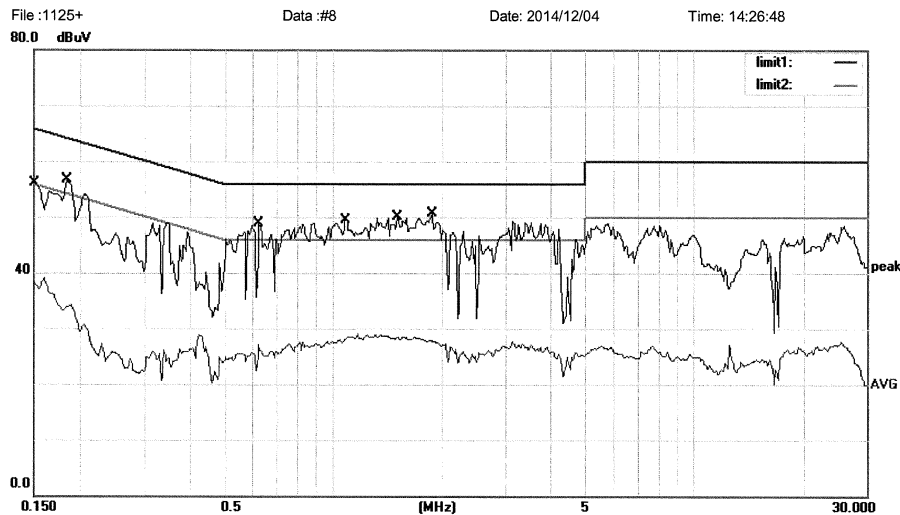
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

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Page: 1

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Conducted Emission Measurement

 Site site #1
 Limit: (CE)FCC PART 15 class B_QP
 EUT: Dot Matrix Printer
 M/N: 1125+
 Mode: Printing
 Note: Parallel interface connection

 Phase: **N**
 Power: AC 120V/60Hz
 Temperature: 24
 Humidity: 55 %

No. Mk.	Freq.	Reading	Correct	Measure-	Limit		Detector	Comment
		Level	Factor	ment	dBuV	dB		
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1500	51.90	0.00	51.90	66.00	-14.10	QP	
2	0.1500	39.16	0.00	39.16	56.00	-16.84	AVG	
3	0.1850	52.40	0.00	52.40	64.26	-11.86	QP	
4	0.1850	34.22	0.00	34.22	54.26	-20.04	AVG	
5	0.6250	45.60	0.00	45.60	56.00	-10.40	QP	
6	0.6250	27.11	0.00	27.11	46.00	-18.89	AVG	
7	1.0850	46.20	0.00	46.20	56.00	-9.80	QP	
8	1.0850	29.06	0.00	29.06	46.00	-16.94	AVG	
9	1.5100	46.80	0.00	46.80	56.00	-9.20	QP	
10	1.5100	28.55	0.00	28.55	46.00	-17.45	AVG	
11 *	1.8750	47.30	0.00	47.30	56.00	-8.70	QP	
12	1.8750	27.83	0.00	27.83	46.00	-18.17	AVG	

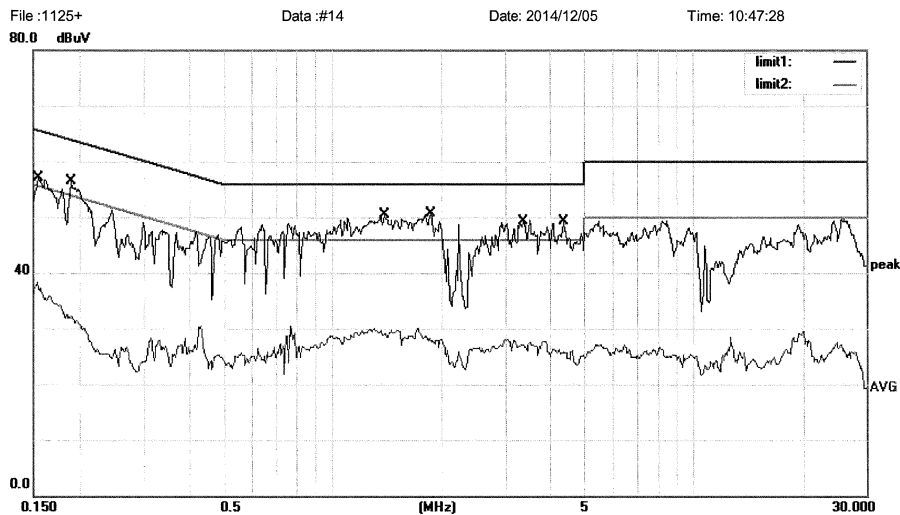
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

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Page: 1

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Conducted Emission Measurement

 Site site #1
 Limit: (CE)FCC PART 15 class B_QP
 EUT: Dot Matrix Printer
 M/N: 1125+
 Mode: Printing
 Note: Serial interface connection

 Phase: **L1**
 Power: AC 120V/60Hz
 Temperature: 24
 Humidity: 55 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1550	54.30	0.00	54.30	65.73	-11.43	QP	
2	0.1550	38.40	0.00	38.40	55.73	-17.33	AVG	
3	0.1900	52.10	0.00	52.10	64.04	-11.94	QP	
4	0.1900	32.35	0.00	32.35	54.04	-21.69	AVG	
5 *	1.3900	48.20	0.00	48.20	56.00	-7.80	QP	
6	1.3900	30.11	0.00	30.11	46.00	-15.89	AVG	
7	1.8650	47.60	0.00	47.60	56.00	-8.40	QP	
8	1.8650	28.62	0.00	28.62	46.00	-17.38	AVG	
9	3.3635	46.50	0.00	46.50	56.00	-9.50	QP	
10	3.3635	28.04	0.00	28.04	46.00	-17.96	AVG	
11	4.3837	45.90	0.00	45.90	56.00	-10.10	QP	
12	4.3837	27.13	0.00	27.13	46.00	-18.87	AVG	

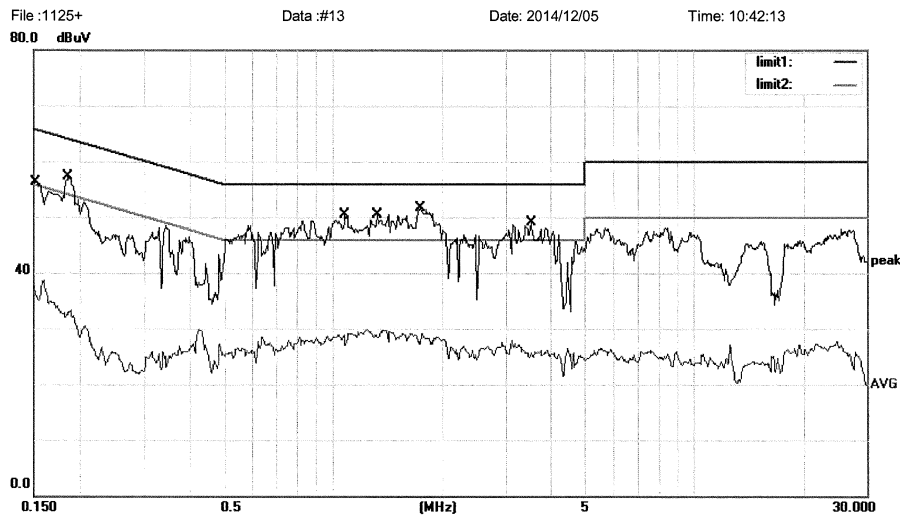
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File :1125+Data :#14

Page: 1

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Conducted Emission Measurement

 Site site #1
 Limit: (CE)FCC PART 15 class B_QP
 EUT: Dot Matrix Printer
 M/N: 1125+
 Mode: Printing
 Note: Serial interface connection

 Phase: **N**
 Power: AC 120V/60Hz
 Temperature: 24
 Humidity: 55 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1516	52.80	0.00	52.80	65.91	-13.11	QP	
2	0.1516	38.66	0.00	38.66	55.91	-17.25	AVG	
3	0.1864	53.40	0.00	53.40	64.20	-10.80	QP	
4	0.1864	33.22	0.00	33.22	54.20	-20.98	AVG	
5	1.0850	45.20	0.00	45.20	56.00	-10.80	QP	
6	1.0850	29.05	0.00	29.05	46.00	-16.95	AVG	
7	1.3300	46.30	0.00	46.30	56.00	-9.70	QP	
8	1.3300	29.81	0.00	29.81	46.00	-16.19	AVG	
9 *	1.7340	46.90	0.00	46.90	56.00	-9.10	QP	
10	1.7340	29.60	0.00	29.60	46.00	-16.40	AVG	
11	3.5400	46.30	0.00	46.30	56.00	-9.70	QP	
12	3.5400	26.49	0.00	26.49	46.00	-19.51	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File :1125+ Data :#13

Page: 1

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emissions

RESULT:**Pass**

Date of testing	:	2014-12-05
Test standard	:	FCC Part15 Subpart B Section 15.109(a)
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	30 – 2000MHz *
Limits	:	FCC Part15 Subpart B Section 15.109(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	26°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

*- The EUT's highest frequency generated and used is 480MHz, hence the highest scan frequency is up to 2GHz only.

For details refer to following test plot.

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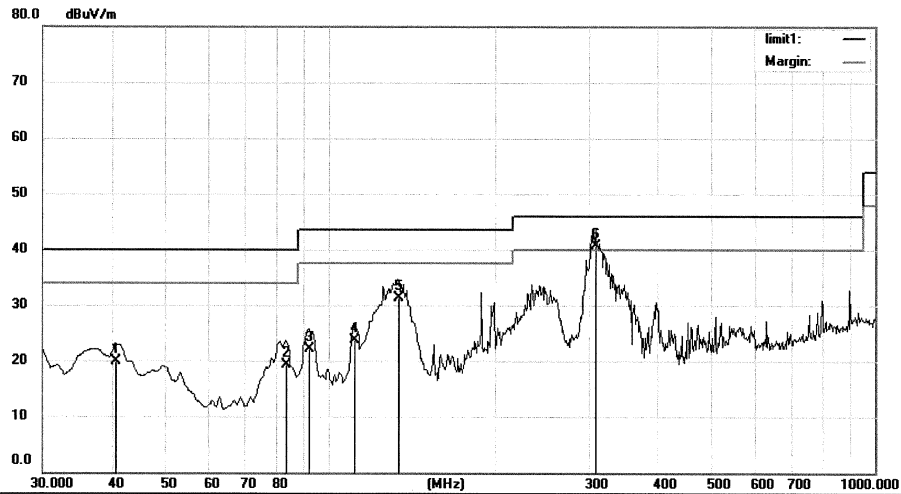
Radiated Emission Measurement

File :1125+

Data :#6

Date: 2014-12-4

Time: 15:52:59



Site Chamber #1

 Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode:Printing

Note: USB interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		40.6700	33.50	-13.64	19.86	40.00	-20.14	QP		
2		83.3500	41.40	-22.05	19.35	40.00	-20.65	QP		
3		92.1386	42.60	-20.51	22.09	43.50	-21.41	QP		
4		111.4800	41.20	-17.48	23.72	43.50	-19.78	QP		
5		133.7900	47.80	-16.43	31.37	43.50	-12.13	QP		
6	*	308.3900	54.40	-13.78	40.62	46.00	-5.38	QP		

*:Maximum data x:Over limit !:over margin

Operator:

File :1125+Data :#6

Page: 1

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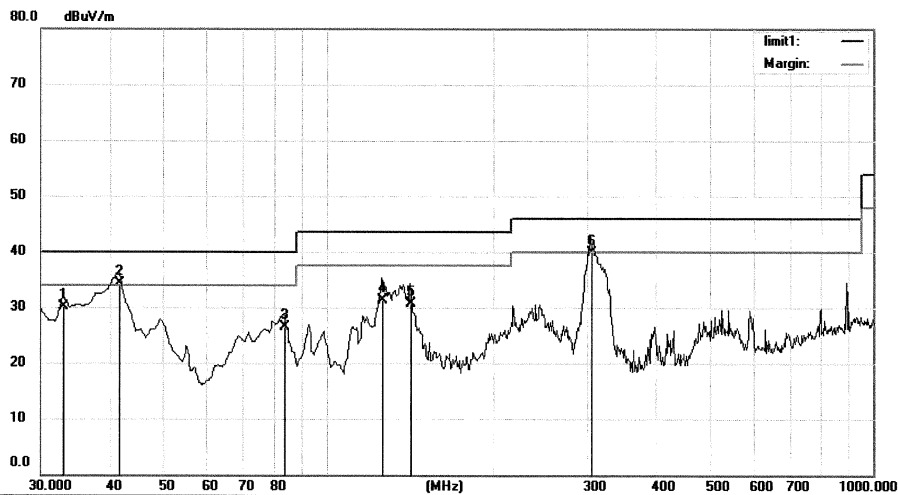
Radiated Emission Measurement

File: 1125+

Data: #5

Date: 2014-12-4

Time: 15:47:24



Site: Chamber #1

 Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode: Printing

Note: USB interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna		Table	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Height	degree	Comment
1		32.9100	44.50	-14.46	30.04	40.00	-9.96	QP			
2	*	41.6400	47.90	-13.58	34.32	40.00	-5.68	QP			
3		83.3500	48.60	-22.05	26.55	40.00	-13.45	QP			
4		126.0300	47.70	-16.39	31.31	43.50	-12.19	QP			
5		141.5500	47.80	-17.14	30.66	43.50	-12.84	QP			
6		305.4800	53.92	-14.03	39.89	46.00	-6.11	QP			

*: Maximum data x: Over limit !: over margin

Operator:

File: 1125+ \Data: #5

Page: 1

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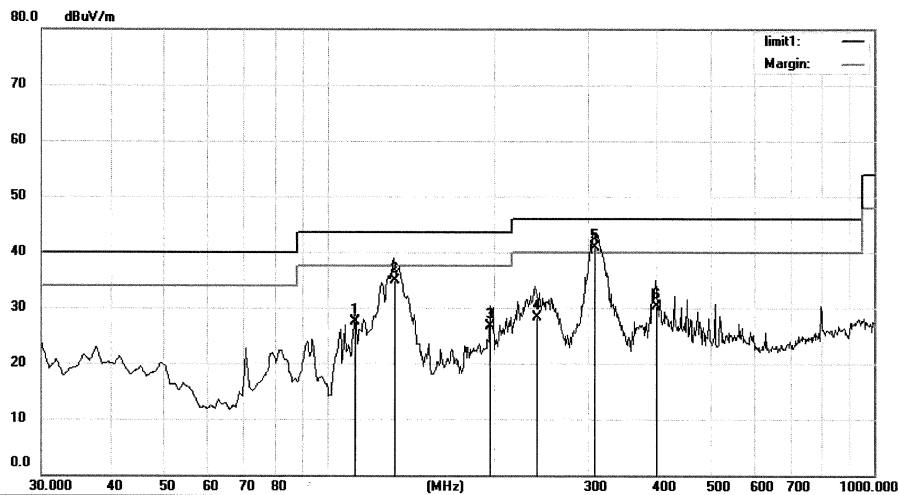
Radiated Emission Measurement

File :1125+

Data :#7

Date: 2014-12-4

Time: 15:58:25



Site Chamber #1

 Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode: Printing

Note: Parallel interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna		Table	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Height	cm	Degree
1		112.4500	44.99	-17.43	27.56	43.50	-15.94	QP			
2		131.8500	51.19	-16.34	34.85	43.50	-8.65	QP			
3		196.8400	44.50	-17.81	26.69	43.50	-16.81	QP			
4		240.4900	43.90	-15.66	28.24	46.00	-17.76	QP			
5	*	307.4200	54.70	-13.85	40.85	46.00	-5.15	QP			
6		399.5700	41.69	-11.29	30.40	46.00	-15.60	QP			

*:Maximum data x: Over limit !: over margin

Operator:

File :1125+ \Data :#7

Page: 1

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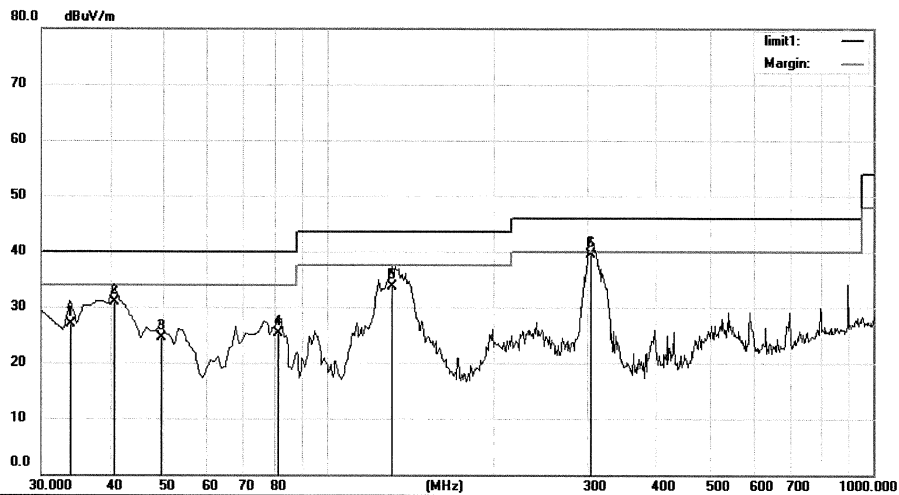
Radiated Emission Measurement

File :1125+

Data :#8

Date: 2014-12-4

Time: 16:02:14



Site: Chamber #1

 Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode:Printing

Note: Parallel interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna		Table	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Height	degree	Comment
1		33.8800	41.30	-14.31	26.99	40.00	-13.01	QP			
2		40.6700	44.50	-13.64	30.86	40.00	-9.14	QP			
3		49.4000	39.70	-15.17	24.53	40.00	-15.47	QP			
4		81.4100	47.60	-22.29	25.31	40.00	-14.69	QP			
5		130.8800	50.00	-16.38	33.62	43.50	-9.88	QP			
6	*	304.5100	53.60	-14.08	39.52	46.00	-6.48	QP			

*:Maximum data x:Over limit !:over margin

Operator:

File :1125+Data :#8

Page: 1

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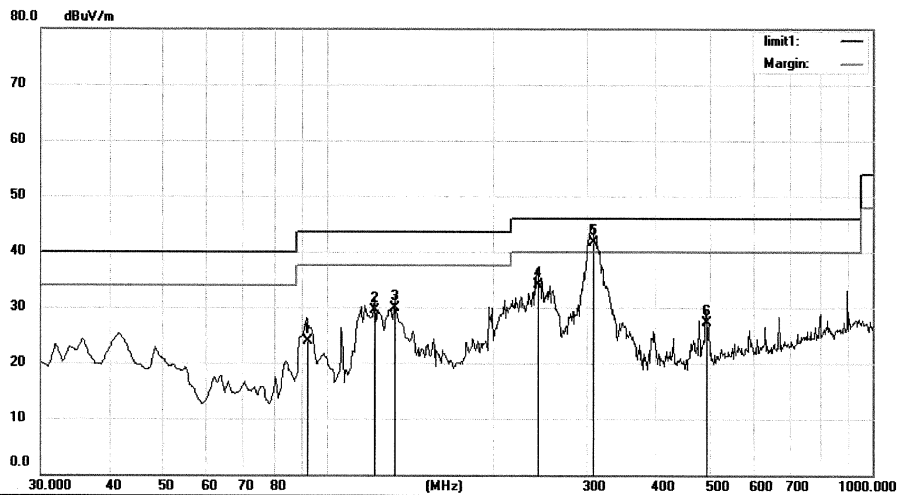
Radiated Emission Measurement

File :1125+

Data :#21

Date: 2014-12-5

Time: 16:10:24



Site: Chamber #1

 Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode: Printing

Note: Serial interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB			
1		92.0800	44.50	-20.52	23.98	43.50	-19.52	QP		
2		122.1500	46.30	-16.72	29.58	43.50	-13.92	QP		
3		132.8200	46.20	-16.39	29.81	43.50	-13.69	QP		
4		242.4300	49.80	-15.64	34.16	46.00	-11.84	QP		
5	*	307.4200	55.60	-13.85	41.75	46.00	-4.25	QP		
6		492.6900	37.80	-10.42	27.38	46.00	-18.62	QP		

*:Maximum data x:Over limit !:over margin

Operator:

File :1125+Data :#21

Page: 1

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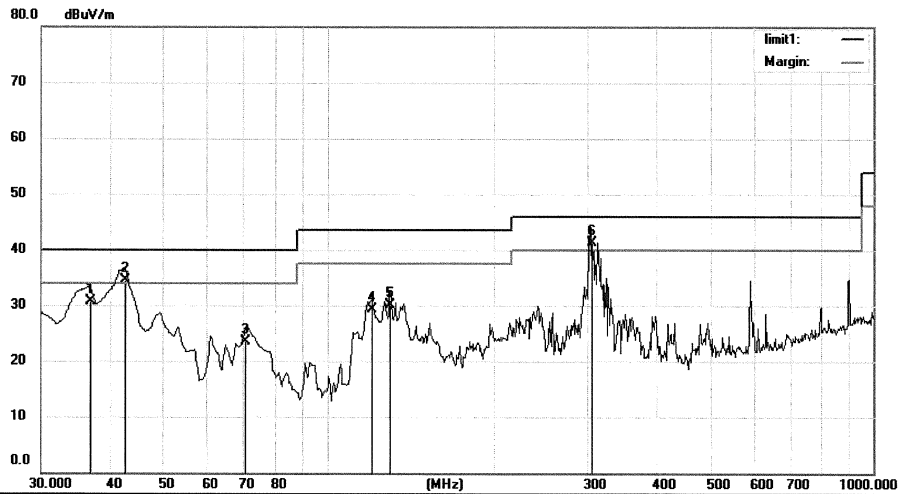
Radiated Emission Measurement

File :1125+

Data :#22

Date: 2014-12-5

Time: 16:16:51



Site Chamber #1

 Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode: Printing

Note: Serial interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		36.7900	44.60	-13.95	30.65	40.00	-9.35	QP		
2	!	42.6100	47.90	-13.49	34.41	40.00	-5.59	QP		
3		70.7400	45.60	-22.19	23.41	40.00	-16.59	QP		
4		120.2100	46.20	-16.93	29.27	43.50	-14.23	QP		
5		129.9100	46.50	-16.35	30.15	43.50	-13.35	QP		
6	*	305.4800	55.30	-14.03	41.27	46.00	-4.73	QP		

*:Maximum data x: Over limit !: over margin

Operator:

File :1125+ \Data :#22

Page: 1

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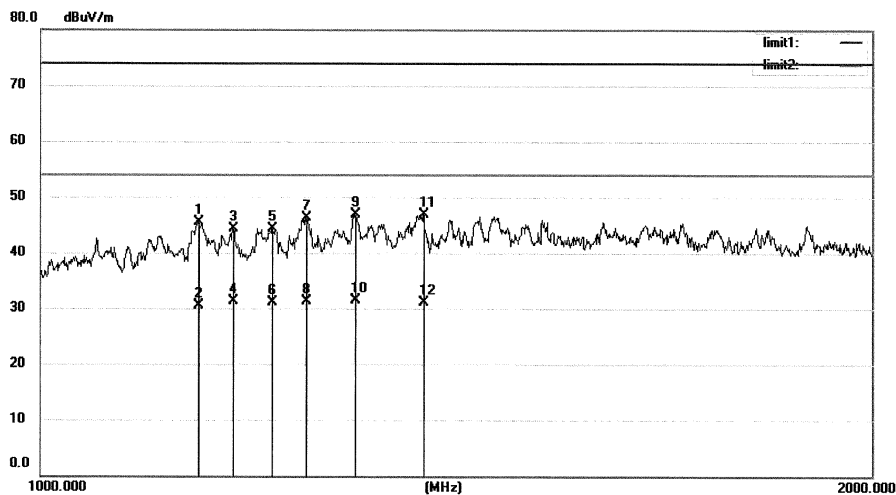
Radiated Emission Measurement

File :1125+

Data :#15

Date: 2014/12/04

Time: 17:25:58



Site Chamber #1

 Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode:Printing

Note: USB interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna		Table	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1140.000	58.21	-12.74	45.47	74.00	-28.53	peak			
2		1140.000	43.25	-12.74	30.51	54.00	-23.49	AVG			
3		1173.000	56.38	-12.17	44.21	74.00	-29.79	peak			
4		1173.000	43.51	-12.17	31.34	54.00	-22.66	AVG			
5		1212.000	56.06	-11.70	44.36	74.00	-29.64	peak			
6		1212.000	42.80	-11.70	31.10	54.00	-22.90	AVG			
7		1247.000	58.06	-11.70	46.36	74.00	-27.64	peak			
8		1247.000	42.95	-11.70	31.25	54.00	-22.75	AVG			
9		1299.000	58.52	-11.68	46.84	74.00	-27.16	peak			
10	*	1299.000	43.20	-11.68	31.52	54.00	-22.48	AVG			
11		1374.000	58.57	-11.67	46.90	74.00	-27.10	peak			
12		1374.000	42.80	-11.67	31.13	54.00	-22.87	AVG			

*:Maximum data x:Over limit !:over margin

Operator:

File :1125+Data :#15

Page: 1

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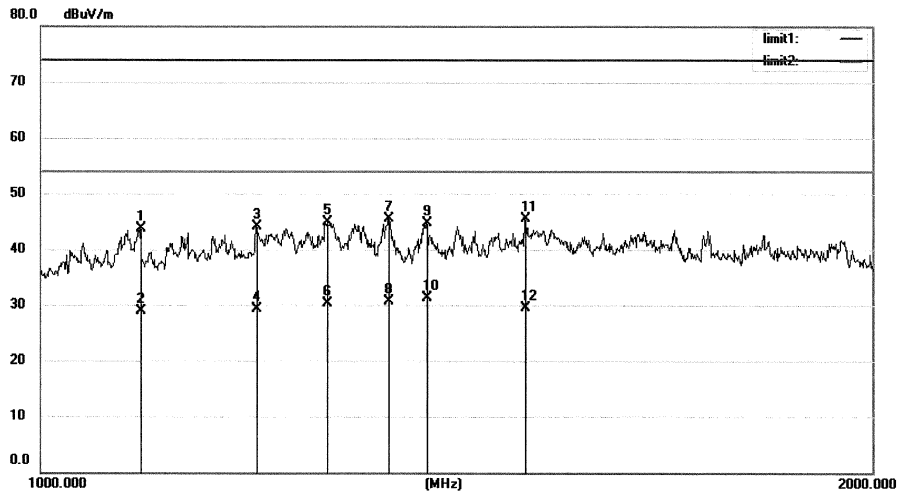
Radiated Emission Measurement

File :1125+

Data :#16

Date: 2014/12/04

Time: 17:31:18



Site Chamber #1

 Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode: Printing

Note: USB interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB			
1		1086.000	59.05	-15.40	43.65	74.00	-30.35	peak		
2		1086.000	44.31	-15.40	28.91	54.00	-25.09	AVG		
3		1196.000	59.86	-15.70	44.16	74.00	-29.84	peak		
4		1196.000	45.06	-15.70	29.36	54.00	-24.64	AVG		
5		1270.000	60.53	-15.70	44.83	74.00	-29.17	peak		
6		1270.000	46.00	-15.70	30.30	54.00	-23.70	AVG		
7		1336.000	61.26	-15.67	45.59	74.00	-28.41	peak		
8		1336.000	46.37	-15.67	30.70	54.00	-23.30	AVG		
9		1378.000	60.41	-15.67	44.74	74.00	-29.26	peak		
10	*	1378.000	46.90	-15.67	31.23	54.00	-22.77	AVG		
11		1496.000	61.61	-16.07	45.54	74.00	-28.46	peak		
12		1496.000	45.65	-16.07	29.58	54.00	-24.42	AVG		

*:Maximum data x: Over limit !: over margin

Operator:

File :1125+ \Data :#16

Page: 1

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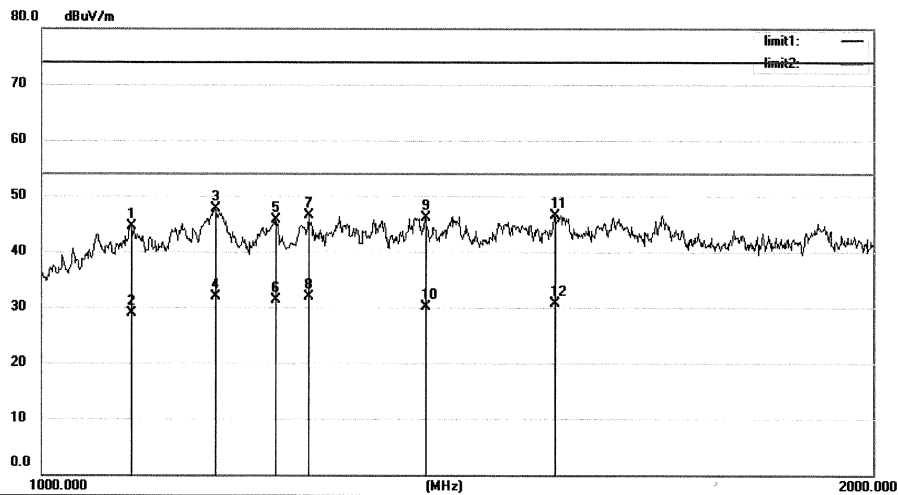
Radiated Emission Measurement

File :1125+

Data :#18

Date: 2014/12/04

Time: 17:46:44



Site Chamber #1

 Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode: Printing

Note: Parallel interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		1077.000	58.40	-13.83	44.57	74.00	-29.43	peak		
2		1077.000	42.80	-13.83	28.97	54.00	-25.03	AVG		
3		1155.000	60.15	-12.49	47.66	74.00	-26.34	peak		
4	*	1155.000	44.37	-12.49	31.88	54.00	-22.12	AVG		
5		1214.000	57.43	-11.70	45.73	74.00	-28.27	peak		
6		1214.000	42.92	-11.70	31.22	54.00	-22.78	AVG		
7		1249.000	58.11	-11.70	46.41	74.00	-27.59	peak		
8		1249.000	43.55	-11.70	31.85	54.00	-22.15	AVG		
9		1375.000	57.80	-11.66	46.14	74.00	-27.86	peak		
10		1375.000	41.70	-11.66	30.04	54.00	-23.96	AVG		
11		1532.000	58.07	-11.57	46.50	74.00	-27.50	peak		
12		1532.000	42.35	-11.57	30.78	54.00	-23.22	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :1125+ \Data :#18

Page: 1

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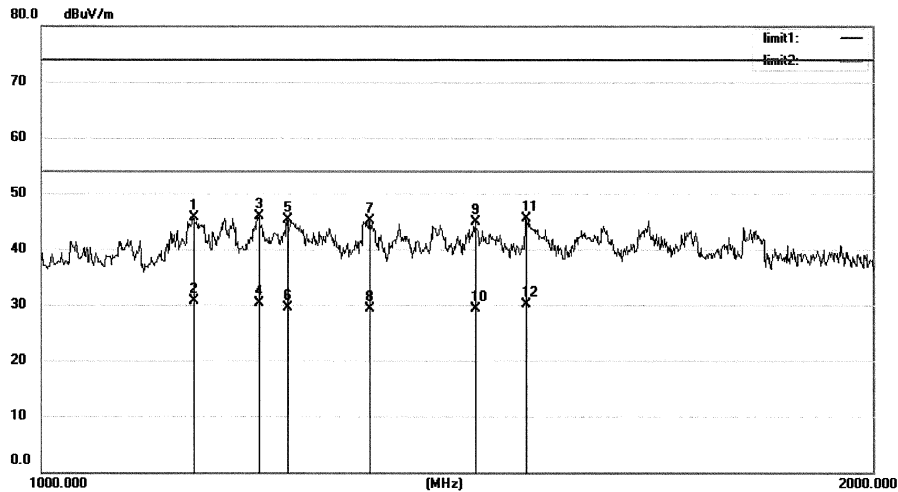
Radiated Emission Measurement

File :1125+

Data :#17

Date: 2014/12/04

Time: 17:39:26



Site Chamber #1

 Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode: Printing

Note: Parallel interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna		Table	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1135.000	61.17	-15.53	45.64	74.00	-28.36	peak			
2	*	1135.000	46.27	-15.53	30.74	54.00	-23.26	AVG			
3		1198.000	61.55	-15.71	45.84	74.00	-28.16	peak			
4		1198.000	45.92	-15.71	30.21	54.00	-23.79	AVG			
5		1226.035	60.96	-15.70	45.26	74.00	-28.74	peak			
6		1226.035	45.30	-15.70	29.60	54.00	-24.40	AVG			
7		1314.000	60.75	-15.68	45.07	74.00	-28.93	peak			
8		1314.000	45.00	-15.68	29.32	54.00	-24.68	AVG			
9		1434.000	60.66	-15.80	44.86	74.00	-29.14	peak			
10		1434.000	45.08	-15.80	29.28	54.00	-24.72	AVG			
11		1496.000	61.49	-16.07	45.42	74.00	-28.58	peak			
12		1496.000	46.27	-16.07	30.20	54.00	-23.80	AVG			

*:Maximum data x: Over limit !: over margin

Operator:

File :1125+ \Data :#17

Page: 1

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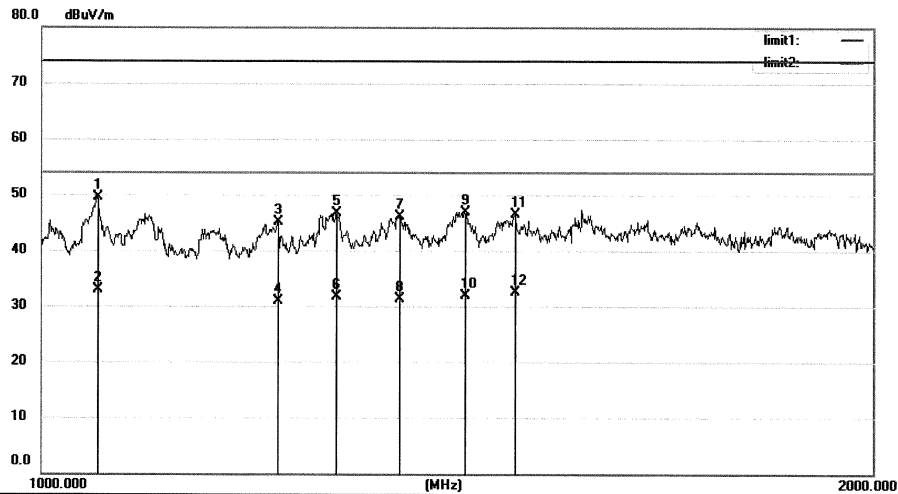
Radiated Emission Measurement

File :1125+

Data :#20

Date: 2014/12/04

Time: 17:59:33



Site Chamber #1

 Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode:Printing

Note: Serial interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB			
1		1048.000	63.83	-14.34	49.49	74.00	-24.51	peak		
2	*	1048.000	47.25	-14.34	32.91	54.00	-21.09	AVG		
3		1216.000	56.72	-11.70	45.02	74.00	-28.98	peak		
4		1216.000	42.68	-11.70	30.98	54.00	-23.02	AVG		
5		1278.000	58.46	-11.69	46.77	74.00	-27.23	peak		
6		1278.000	43.44	-11.69	31.75	54.00	-22.25	AVG		
7		1347.000	57.84	-11.68	46.16	74.00	-27.84	peak		
8		1347.000	43.00	-11.68	31.32	54.00	-22.68	AVG		
9		1422.000	58.46	-11.64	46.82	74.00	-27.18	peak		
10		1422.000	43.54	-11.64	31.90	54.00	-22.10	AVG		
11		1483.000	58.11	-11.60	46.51	74.00	-27.49	peak		
12		1483.000	44.20	-11.60	32.60	54.00	-21.40	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :1125+Data :#20

Page: 1

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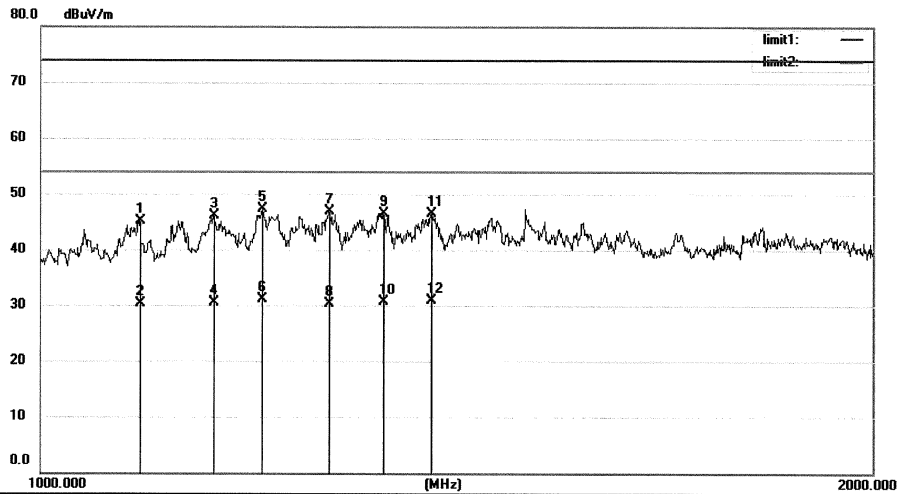
Radiated Emission Measurement

File :1125+

Data :#19

Date: 2014/12/04

Time: 17:52:00



Site Chamber #1

 Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Dot Matrix Printer

M/N: 1125+

Mode:Printing

Note: Serial interface connection

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna			Table
		MHz	Level	Factor	ment			Height	Table	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1086.000	60.52	-15.40	45.12	74.00	-28.88	peak			
2		1086.000	45.62	-15.40	30.22	54.00	-23.78	AVG			
3		1154.000	61.77	-15.58	46.19	74.00	-27.81	peak			
4		1154.000	46.00	-15.58	30.42	54.00	-23.58	AVG			
5		1201.000	63.10	-15.72	47.38	74.00	-26.62	peak			
6	*	1201.000	46.87	-15.72	31.15	54.00	-22.85	AVG			
7		1271.000	62.68	-15.69	46.99	74.00	-27.01	peak			
8		1271.000	45.90	-15.69	30.21	54.00	-23.79	AVG			
9		1329.000	62.20	-15.68	46.52	74.00	-27.48	peak			
10		1329.000	46.38	-15.68	30.70	54.00	-23.30	AVG			
11		1384.000	62.16	-15.67	46.49	74.00	-27.51	peak			
12		1384.000	46.56	-15.67	30.89	54.00	-23.11	AVG			

*:Maximum data x:Over limit !:over margin

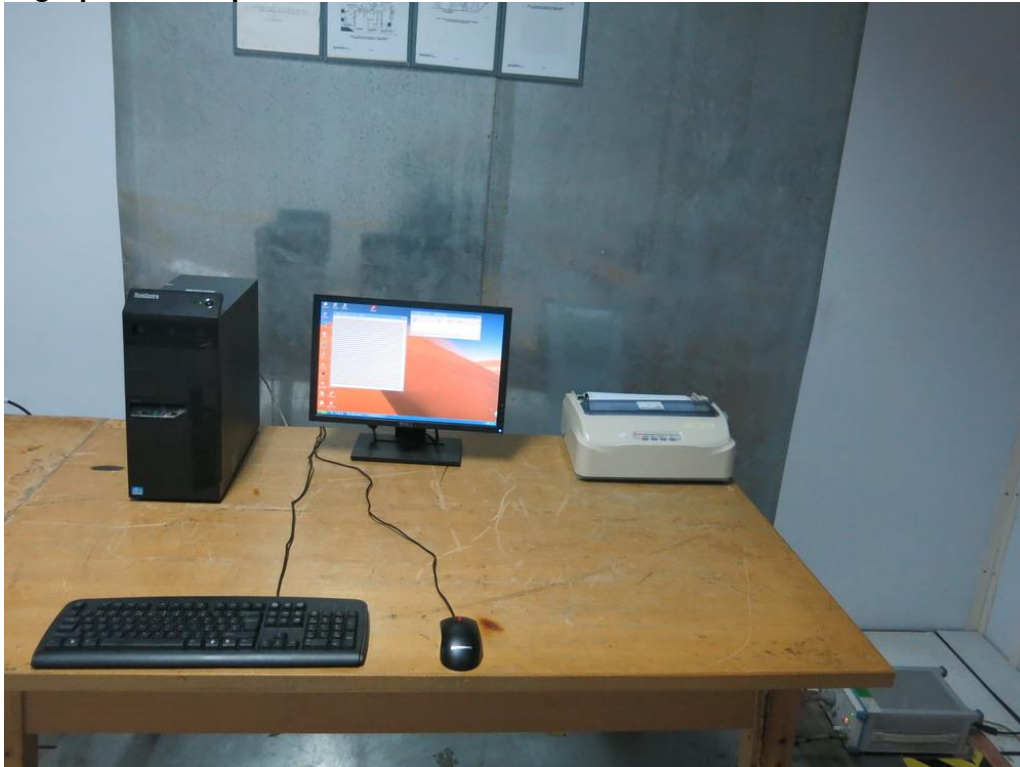
Operator:

File :1125+Data :#19

Page: 1

6. Photographs of the Test Set-Up

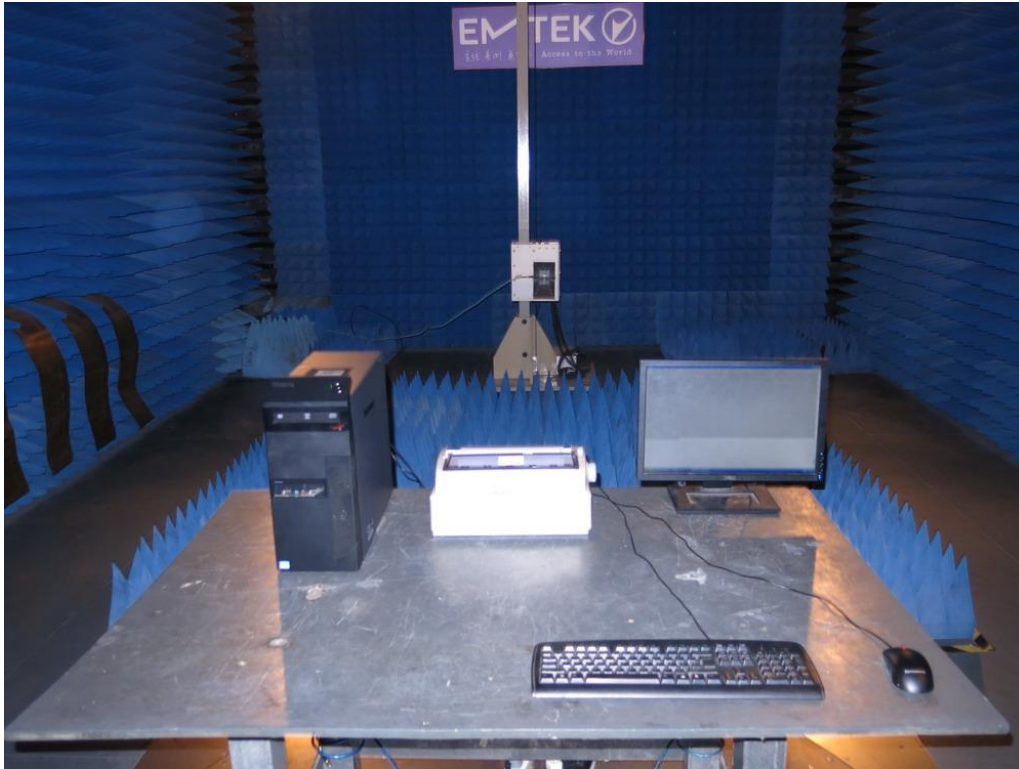
Photograph 1: Set-up for Conducted Emissions



Photograph 2: Set-up for Radiated Emissions of below 1GHz



Photograph 3: Set-up for Radiated Emissions of 1 - 2GHz



7. List of Tables

Table 1: List of Test and Measurement Equipment	5
Table 2: Measurement Uncertainty	6

8. List of Photographs

Photograph 1: Set-up for Conducted Emissions	30
Photograph 2: Set-up for Radiated Emissions of below 1GHz	30
Photograph 3: Set-up for Radiated Emissions of 1 - 2GHz.....	31