



香港標準及檢定中心
Hong Kong Standards and Testing Centre

Date: 2003-07-14

TEST REPORT

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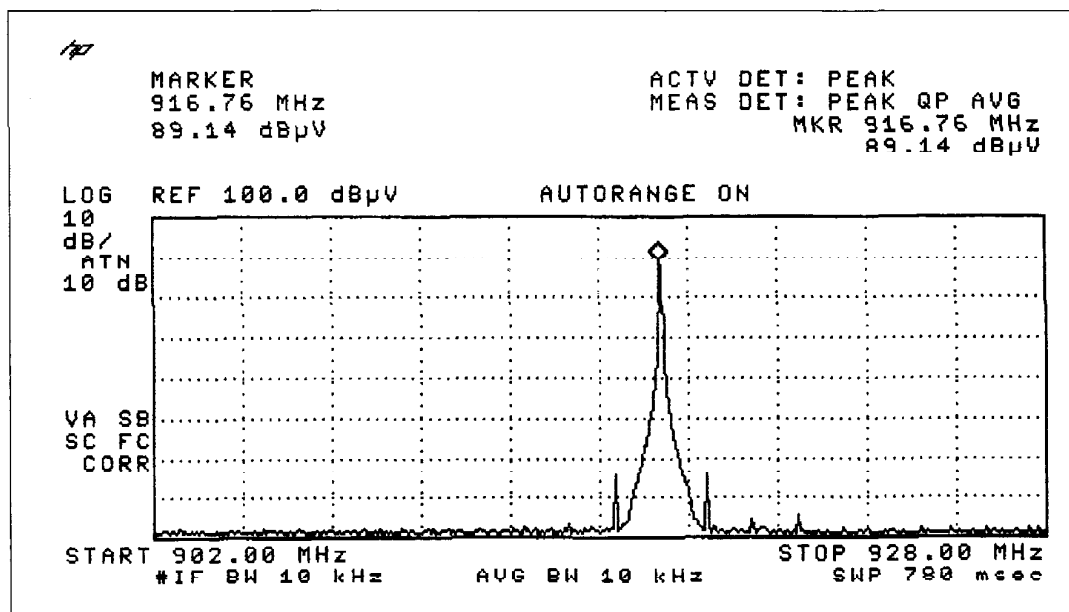
No.: HM110671

Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Millivolts/meter]	Field Strength of Fundamental Emission [microvolts/meter]
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-22500	250	2500

** Linear interpolations

Results: KP1



**Field Strength of Fundamental Emissions
Quasi-Peak**

Frequency MHz	Measured Level @3m dBµV/m	Correction Factor dBµV/m	Field Strength dBµV/m	Field Strength µV/m	Limit @3m µV/m	Antenna Polarity
916.70	59.6	29.8	89.4	29512.1	50,000	Vertical

Conditions of Issuance of Test Reports

1. All samples and pieces are accepted by the client and presented to the testing center for testing. The testing center will not be responsible for the results of the test if the client does not provide the necessary information or if the client does not follow the instructions of the testing center. The testing center will not be responsible for the results of the test if the client does not provide the necessary information or if the client does not follow the instructions of the testing center. The testing center will not be responsible for the results of the test if the client does not provide the necessary information or if the client does not follow the instructions of the testing center.

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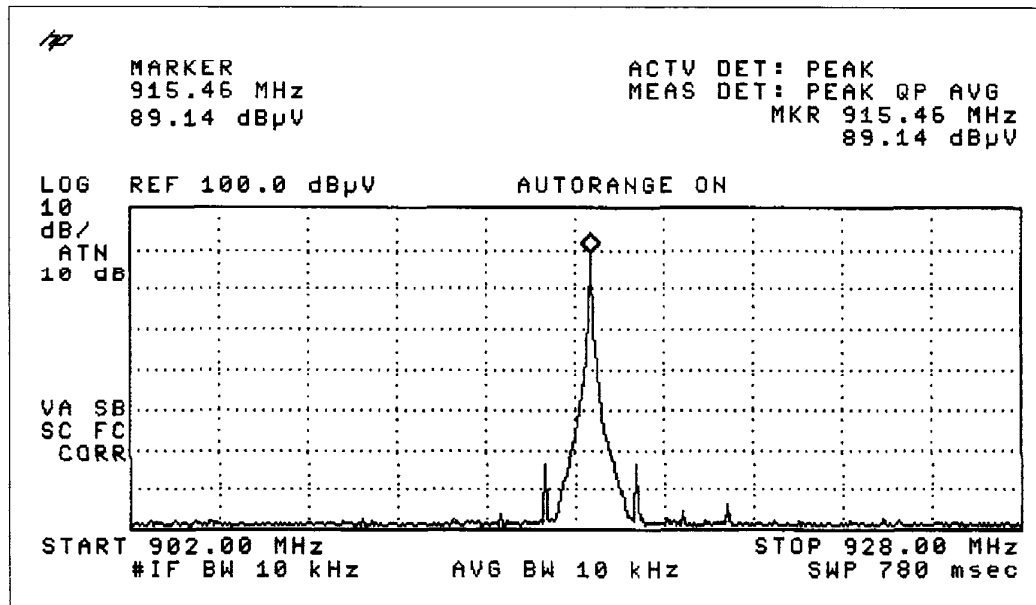
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Results: KP3



Field Strength of Fundamental Emissions Quasi-Peak						
Frequency MHz	Measured Level @3m dBµV/m	Correction Factor dBµV/m	Field Strength dBµV/m	Field Strength µV/m	Limit @3m µV/m	Antenna Polarity
915.46	57.1	29.8	86.9	22130.9	50,000	Vertical

Conditions of Issuance of Test Reports

1. All samples and goods are accepted for testing under the conditions specified in the Test Report and subject to the following conditions: (a) The Company will not be held responsible for any damage to the samples or goods during the testing process; (b) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (c) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (d) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (e) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (f) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (g) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (h) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (i) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (j) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (k) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (l) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (m) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (n) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (o) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (p) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (q) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (r) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (s) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (t) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (u) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (v) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (w) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (x) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (y) The Company will not be held responsible for any damage to the samples or goods caused by the testing process; (z) The Company will not be held responsible for any damage to the samples or goods caused by the testing process.

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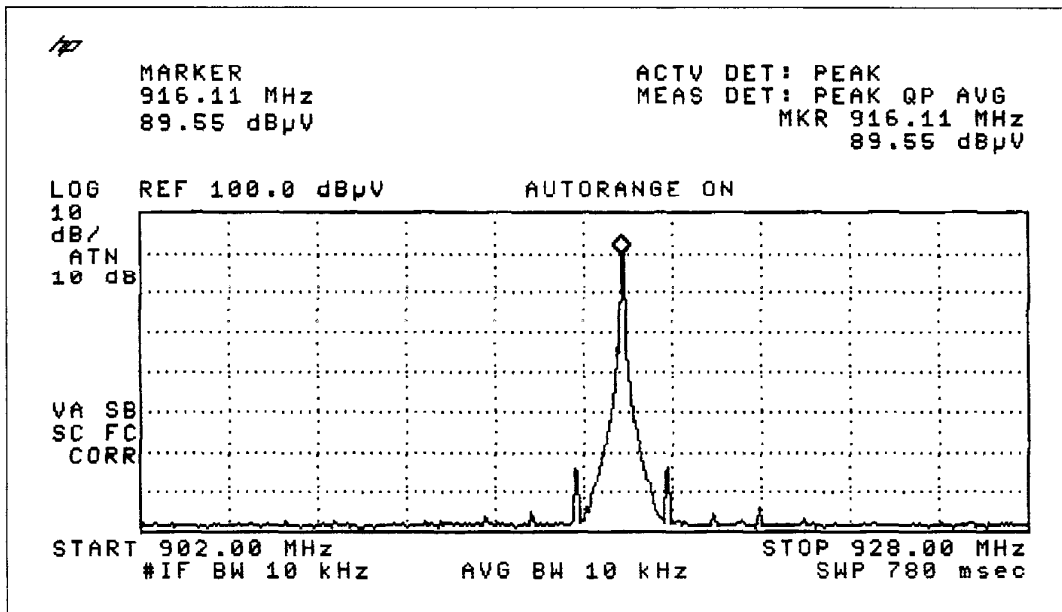
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Results: KP4



Field Strength of Fundamental Emissions Quasi-Peak						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	Antenna Polarity
916.10	56.6	29.8	86.4	20893.0	50,000	Vertical

Conditions of Issuance of Test Reports

The HKSTC and its staff are engaged in the... (text continues with legal conditions and disclaimers regarding the accuracy and liability of the test reports)

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Limited for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results:

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	Antenna Polarity	Level @3m dB μ V/m	Limit @3m dB μ V/m	Level @3m μ V/m	Limit @3m μ V/m
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Calculated measurement uncertainty = 30MHz to 300MHz \pm 3.7dB
300MHz to 1GHz +3.0dB / -2.7dB

Conditions of Issuance of Test Reports

The Hong Kong Standards & Testing Centre (the "Company") has issued this test report in accordance with the conditions and conditions of use set out in this report. The test results are based on the information provided to the Company and are not to be used for any other purpose. The Company is not responsible for any errors or omissions in the test results or for any damage or loss of any kind arising from the use of the test results. The Company is not responsible for any errors or omissions in the test results or for any damage or loss of any kind arising from the use of the test results. The Company is not responsible for any errors or omissions in the test results or for any damage or loss of any kind arising from the use of the test results.

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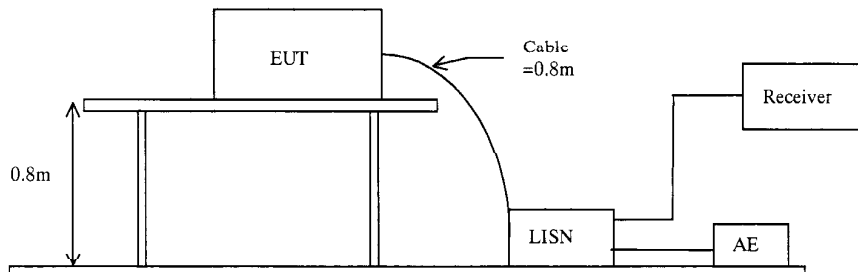
3.1.1 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.4:2000
Test Date:	2003-06-02
Mode of Operation:	On mode

Test Method:

The test was performed in accordance with ANSI C63.4:2000, with the following: an Initial measurement was performed in peak and average detection mode on the live line. Any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



Conditions of Issuance of Test Reports

All samples and tests are accepted by the Hong Kong Standards & Testing Centre (HKSTC) for testing and certification only. The test results are only valid if the test is performed in accordance with the relevant standard. The test results are only valid if the test is performed in accordance with the relevant standard. The test results are only valid if the test is performed in accordance with the relevant standard. The test results are only valid if the test is performed in accordance with the relevant standard.

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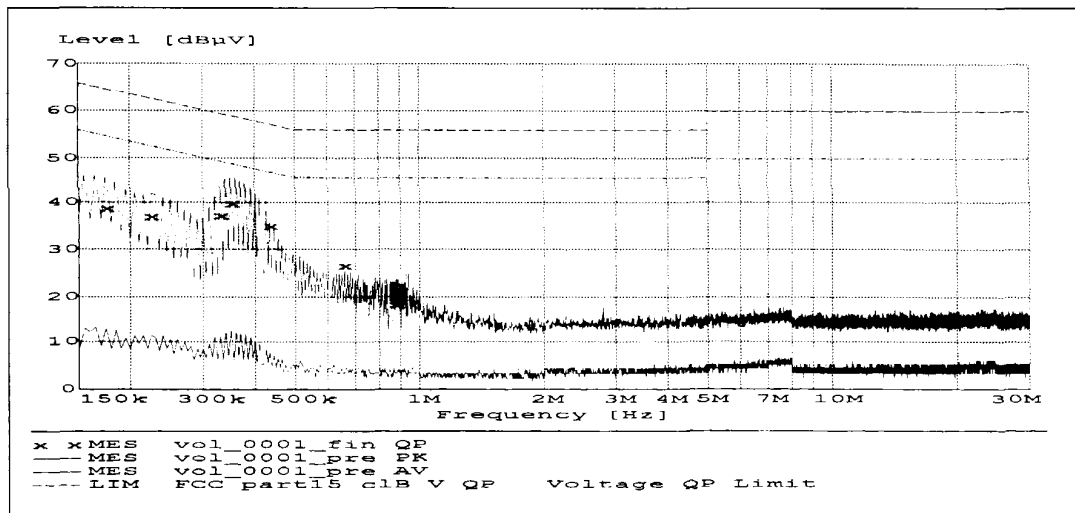
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dB μ V]	Average [dB μ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Results: On Mode (KP2) TX



Conditions of Issuance of Test Reports

1. All reports and certificates are issued by the Hong Kong Standards & Testing Centre (the Centre) and are subject to the terms and conditions set out in this report. The Centre is not responsible for any errors or omissions in the reports and certificates. The Centre is not responsible for any damage or loss of property or any other consequences arising from the use of the reports and certificates. The Centre is not responsible for any legal action taken against it in connection with the reports and certificates. The Centre is not responsible for any delay in the issuance of the reports and certificates. The Centre is not responsible for any cost of the reports and certificates. The Centre is not responsible for any other matters not mentioned in this report.

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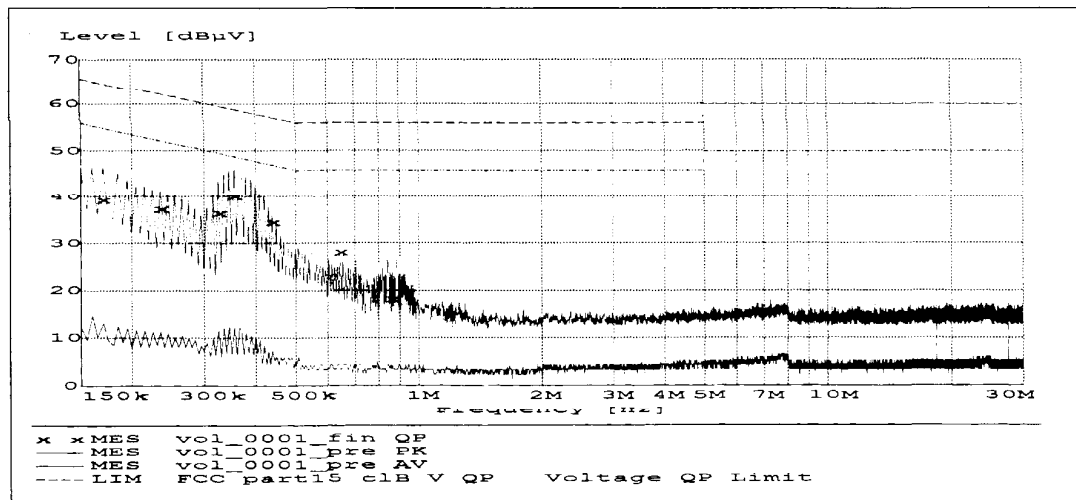
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dB μ V]	Average [dB μ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Results: On Mode (KP3) TX



Conditions of Issuance of Test Reports

The services and reports are a joint effort of the Hong Kong Standards and Testing Centre and the client. The client is responsible for providing the necessary information and equipment for the test. The client is also responsible for ensuring that the test is conducted in accordance with the relevant standards and regulations. The client is also responsible for ensuring that the test results are used for the intended purpose and are not misused. The client is also responsible for ensuring that the test results are kept confidential and are not disclosed to any third party without the client's prior written consent. The client is also responsible for ensuring that the test results are used to improve the product and are not used for any other purpose. The client is also responsible for ensuring that the test results are used to improve the process and are not used for any other purpose. The client is also responsible for ensuring that the test results are used to improve the service and are not used for any other purpose. The client is also responsible for ensuring that the test results are used to improve the relationship and are not used for any other purpose. The client is also responsible for ensuring that the test results are used to improve the business and are not used for any other purpose. The client is also responsible for ensuring that the test results are used to improve the industry and are not used for any other purpose. The client is also responsible for ensuring that the test results are used to improve the world and are not used for any other purpose.

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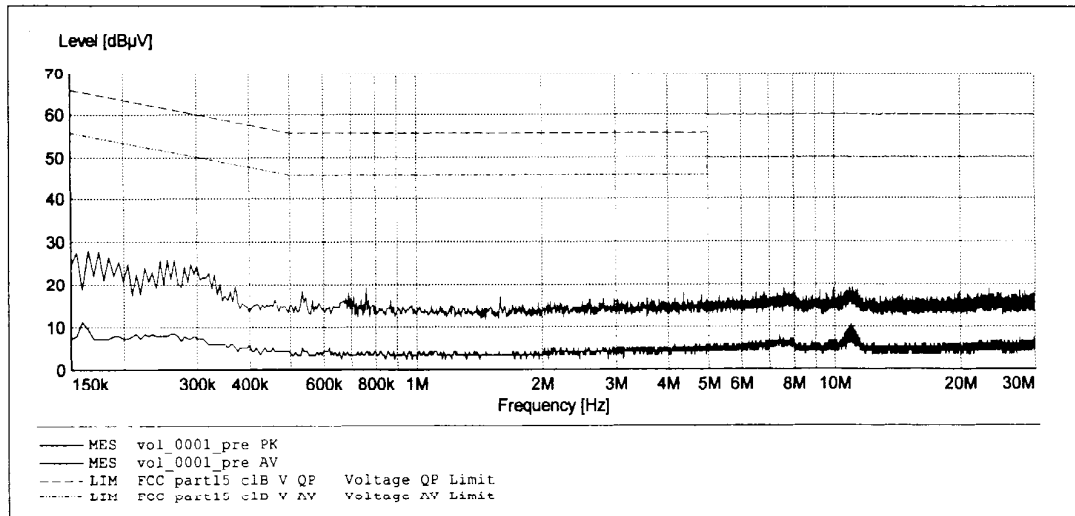
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Results: RX Mode (Printer ID 1)



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Calculated measurement uncertainty = $\pm 2.3\text{dB}$

*- Emission greater than 30dB below limit line.

Conditions of Issuance of Test Reports

The test reports issued by the Centre are for information only. They do not constitute a warranty or a guarantee of any kind. The Centre does not accept any liability for any loss or damage, whether direct or indirect, arising from the use of the test reports. The test reports are issued on the basis of the information provided by the client and the test results obtained. The Centre does not accept any liability for any loss or damage, whether direct or indirect, arising from the use of the test reports. The test reports are issued on the basis of the information provided by the client and the test results obtained. The Centre does not accept any liability for any loss or damage, whether direct or indirect, arising from the use of the test reports.

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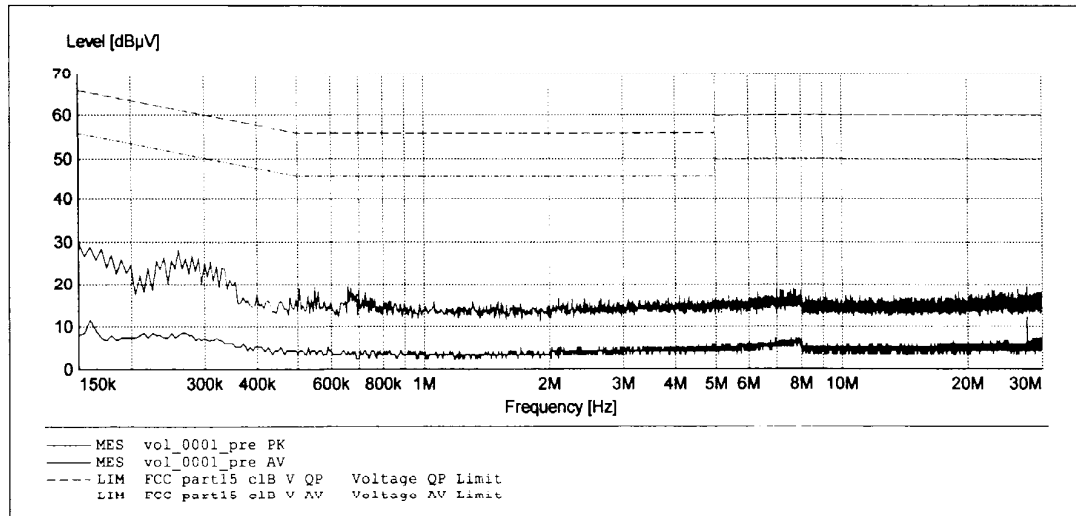
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dBµV]	Average [dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Results: RX Mode (Printer ID 2)



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBµV	Limit dBµV	Level dBµV	Limit dBµV
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Calculated measurement uncertainty = ±2.3dB

-*- Emission greater than 30dB below limit line.

Conditions of Issuance of Test Reports
The test reports are issued on the basis of the test results obtained from the test conducted at the Hong Kong Standards and Testing Centre. The test reports are issued in accordance with the requirements of the Hong Kong Standards and Testing Centre. The test reports are issued in accordance with the requirements of the Hong Kong Standards and Testing Centre. The test reports are issued in accordance with the requirements of the Hong Kong Standards and Testing Centre.

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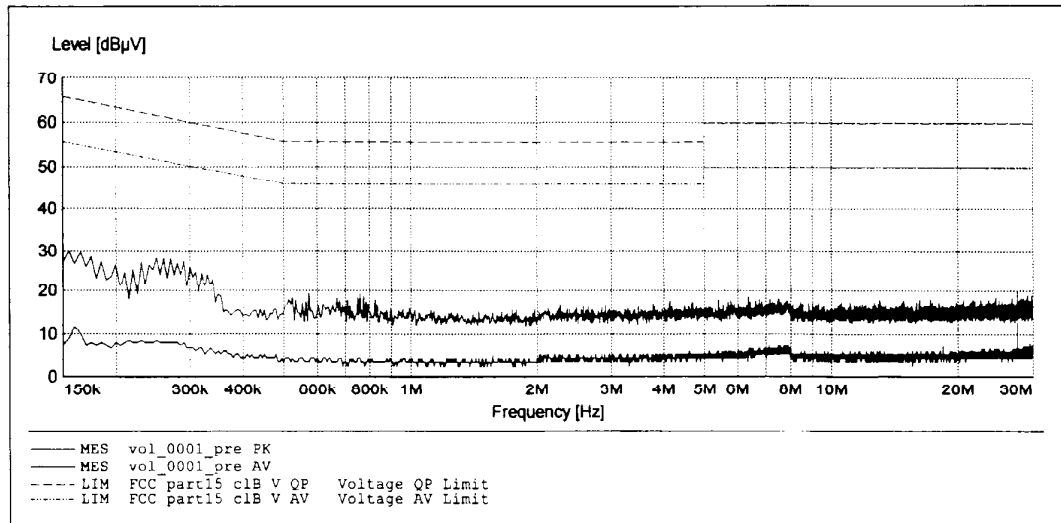
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dB μ V]	Average [dB μ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Results: RX Mode (Printer ID 3)



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Calculated measurement uncertainty = ± 2.3 dB
 -* Emission greater than 30dB below limit line.

Conditions of Issuance of Test Reports
 This report is issued only for the purpose of providing information on the results of the test carried out in accordance with the test methods specified in the test plan. It does not constitute a guarantee of the accuracy or reliability of the results or a warranty of any kind. The test results are valid only for the specific conditions of the test and may not be applicable to other conditions. The test results are valid only for the specific conditions of the test and may not be applicable to other conditions. The test results are valid only for the specific conditions of the test and may not be applicable to other conditions.

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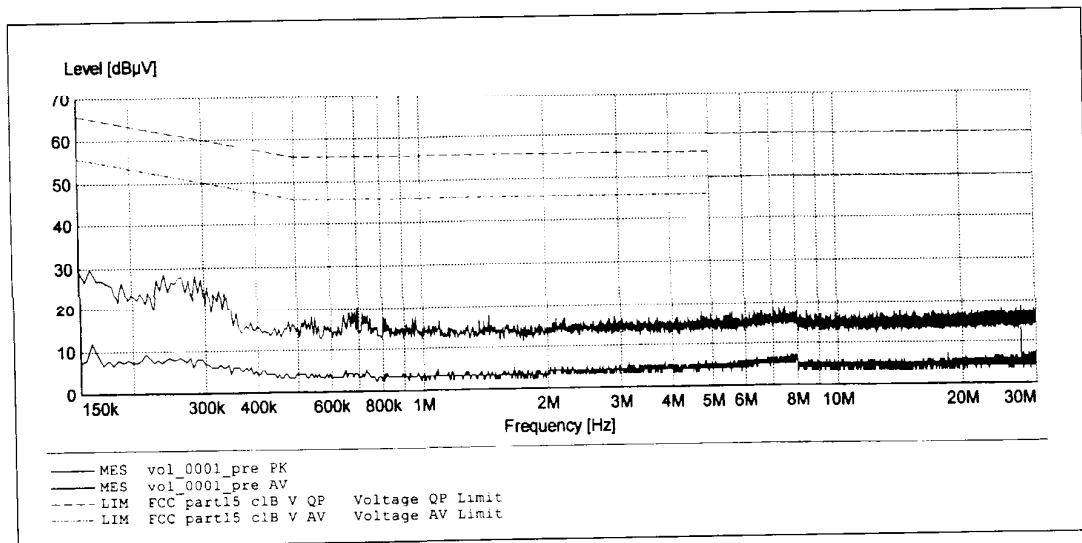
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dB μ V]	Average [dB μ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Results: RX Mode (Printer ID 4)



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Calculated measurement uncertainty = ± 2.3 dB
 -* Emission greater than 30dB below limit line.

Conditions of Issuance of Test Reports

The Client is responsible for providing the test object in accordance with the test plan and the test method. The Client is also responsible for ensuring that the test object is suitable for the test and that the test results are valid. The Client is also responsible for ensuring that the test results are used for the intended purpose.

The test results are valid only if the test object is tested in accordance with the test plan and the test method. The test results are also valid only if the test object is tested in accordance with the test plan and the test method.

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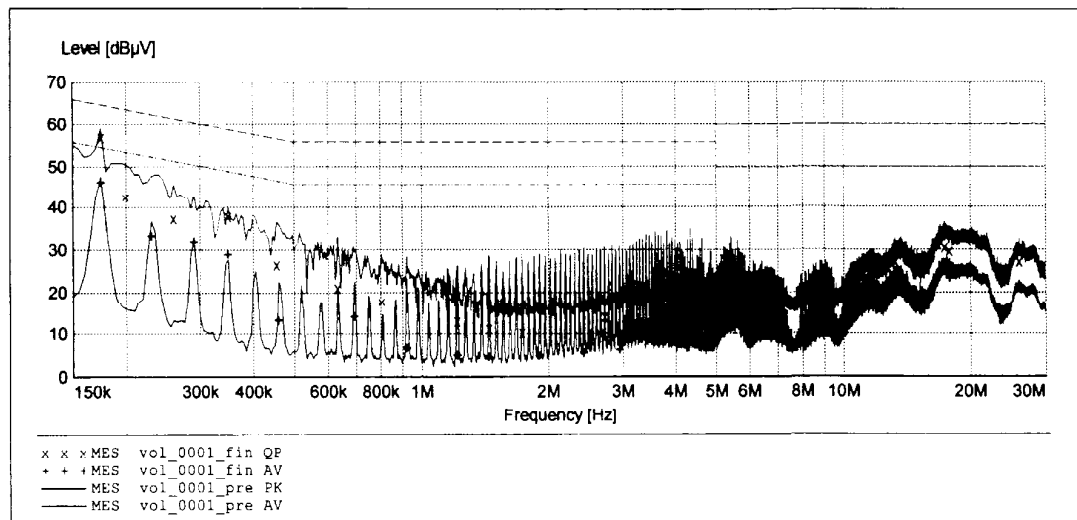
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0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Results: PC On TX Mode



Conditions of Issuance of Test Reports

The test reports are issued under the following conditions:
 1. The test reports are issued only for the tests carried out in accordance with the applicable standards.
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Results: PC On TX Mode

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBµV	Limit dBµV	Level dBµV	Limit dBµV
Live	0.175	57.1	60.0	-*-	-*-
Live	0.200	42.7	60.0	-*-	-*-
Live	0.290	-*-	-*-	31.8	51.0
Live	0.350	-*-	-*-	28.8	49.0
Live	0.455	26.6	60.0	-*-	-*-
Live	2.720	14.0	60.0	-*-	-*-
Live	3.585	12.4	60.0	-*-	-*-
Live	5.440	-*-	-*-	14.9	50.0
Live	6.425	-*-	-*-	19.9	50.0
Live	8.800	-*-	-*-	11.3	50.0
Live	13.150	-*-	-*-	21.2	50.0
Live	13.265	27.3	60.0	-*-	-*-
Live	17.385	30.6	60.0	-*-	-*-
Live	17.560	-*-	-*-	24.7	50.0
Live	17.790	29.7	60.0	-*-	-*-
Live	17.850	-*-	-*-	23.4	50.0
Live	25.990	-*-	-*-	21.7	50.0
Live	26.000	27.2	60.0	-*-	-*-

To be continue...

Conditions of Issuance of Test Reports

The Hong Kong Standards and Testing Centre (the Centre) provides testing and certification services to the public. The Centre is a non-profit organization established under the Companies Ordinance of the Hong Kong Government. The Centre's primary objective is to provide high quality testing and certification services to the public. The Centre's services are provided in accordance with the requirements of the International Organization of Standardization (ISO) and the International Electrotechnical Commission (IEC). The Centre's testing and certification services are provided in accordance with the requirements of the International Organization of Standardization (ISO) and the International Electrotechnical Commission (IEC). The Centre's testing and certification services are provided in accordance with the requirements of the International Organization of Standardization (ISO) and the International Electrotechnical Commission (IEC). The Centre's testing and certification services are provided in accordance with the requirements of the International Organization of Standardization (ISO) and the International Electrotechnical Commission (IEC).

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Results: PC On TX Mode

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
Neutral	0.175	-*	-*	46.4	55.0
Neutral	0.230	-*	-*	33.2	52.0
Neutral	0.260	37.4	61.0	-*	-*
Neutral	0.350	37.9	59.0	-*	-*
Neutral	0.460	-*	-*	13.0	47.0
Neutral	0.635	21.3	56.0	-*	-*
Neutral	0.695	-*	-*	13.9	46.0
Neutral	0.805	17.9	56.0	-*	-*
Neutral	0.925	-*	-*	6.7	46.0
Neutral	1.215	13.1	56.0	5.1	46.0
Neutral	1.445	11.3	56.0	4.7	46.0
Neutral	1.735	10.5	56.0	-*	-*
Neutral	1.910	-*	-*	4.9	46.0
Neutral	2.430	-*	-*	5.6	46.0
Neutral	2.950	-*	-*	6.4	46.0
Neutral	3.645	-*	-*	7.5	46.0
Neutral	4.340	11.7	56.0	-*	-*
Neutral	4.860	12.7	56.0	-*	-*

Remarks:

Calculated measurement uncertainty = ±2.3dB
-* Emission greater than 30dB below limit line.

Conditions of Issuance of Test Reports

1. All test reports and certificates issued by the Centre are subject to the conditions of issuance set out in this document. The Centre shall not be held responsible for any errors or omissions in the test reports and certificates issued by the Centre. The Centre shall not be held responsible for any errors or omissions in the test reports and certificates issued by the Centre. The Centre shall not be held responsible for any errors or omissions in the test reports and certificates issued by the Centre. The Centre shall not be held responsible for any errors or omissions in the test reports and certificates issued by the Centre.

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Appendix B

Photographs of EUT

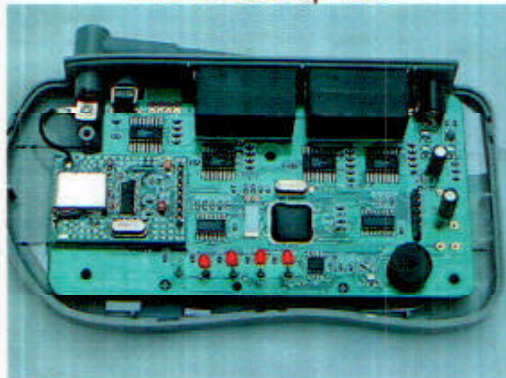
Front View of the product



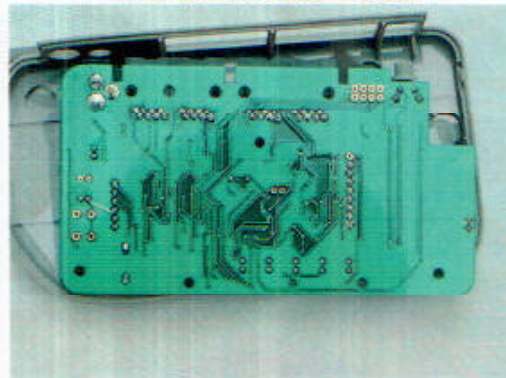
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



Conditions of Issuance of Test Reports

1. All samples and goods accepted by The Hong Kong Standards and Testing Centre Ltd (the "Company") comply for testing and report. A accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions prevail over any contract, agreement or arrangement between the Company and any client. Any company requesting its services (the "Client"). 2. Any report issued by the Company is a result of this application for testing services (the "Report") shall be issued in confidence to the Client and the Report will be strictly limited to such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Client to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. The Company will not, without the consent of the Client, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders. 3. The Company shall not be called to be liable to be called to give evidence as a witness in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders. 4. Reports issued by the Company to any independent body shall not bind the Company to support, or prevent the Company, from opposing the Client submitting the samples, unless the names of supplier and manufacturer are disclosed prior to the issuance of the Report. The Company reserves the right to refuse to take part in any legal action against the Client. 5. The Report is valid only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report. 6. In the event of the improper use of the Report as intended for the Company, the Company reserves the right to withdraw it and to adopt any other additional remedies which may be appropriate. 7. Samples submitted for testing are accepted on the understanding that the Report issued shall be subject to the terms of, or be the instrument for, any legal action against the Company. 8. The Company will not be liable for or accept responsibility for any loss or damage, however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations. 9. Any client wishing to use the Report to start proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing. 10. The Company will take reasonable care of samples submitted for testing as far as the Company's possession. However, no liability is accepted for loss or damage (howsoever caused), to goods and/or samples which are in the possession or under the control of the Company. Absorption of samples submitted for the purpose of testing is irrevocable. The Company will return, or its Client's written request, your sample returns or the samples after testing. The Client agrees that any samples, if retained by the Company may be destroyed after one month, unless the Company has specifically instructed otherwise. 11. Samples which are in the Company's possession cannot be used for any other purpose, including examination or test to be made, may, however, be subject to the Company's entire discretion, be accepted for test but the relevant report may be accordingly qualified.

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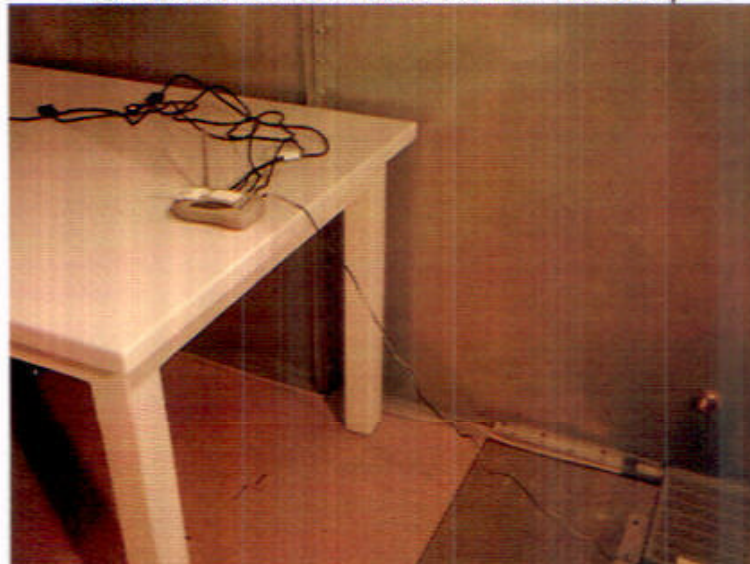
No.: HM110671

Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Conducted Emission Test Set Up



End of Document

Conditions of Issuance of Test Reports

1. All reports and graphs are accepted by the Hong Kong Standards & Testing Centre (the "Company") only for testing and report in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute an express agreement between the Company and any person. 2. Any report issued by the Company as a result of the application for being certified the "EUT" shall be issued in confidence to the Client and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Client to whom the Report is issued may, however, show it and it or a certified copy thereof to the Client's suppliers and other persons directly concerned. The Company will not, without the consent of the Client, accept any responsibility or correspondence with any third party concerning the contents of the Report, unless required by the relevant government authorities. 3. The Company shall not be called to law in the event of any dispute or litigation in a court of law without the prior written consent, unless required by the relevant government authorities, laws or court orders. Reports issued by the Company to any independent body shall not bind the Company in a court of law or prevent the Company from accepting the Client's subsequent complaint, unless the terms of application and issue are printed upon the cover of the Report. 4. The Company warrants that the Report is a true and correct copy of the original test results. 5. The Client agrees that the Company shall not be held liable for any loss or damage caused by the Client's negligence or any other person's negligence which may be attributed to the Company and is deemed to be accepted by the Client. 6. The Client agrees that the Report shall remain the property of the Company. 7. The Company will not be liable for any accident, injury, loss or damage, arising from the use of information contained in any of its reports or in any communication whatsoever about its services or investigations. 8. Applicants wishing to use the Report in court proceedings or otherwise shall advise the Company in that effect prior to submitting the sample for testing. 9. The Company will take reasonable care of items submitted for testing when in the Company's possession. However, it will not be held liable for any loss or damage to such items, whether or not the Company is notified of such loss or damage. 10. Samples which are in the Company's possession remain the property of the Client and shall be returned to the Client after the test, unless the Client has specifically instructed otherwise. 11. Samples which are in the Company's possession remain the property of the Client and shall be returned to the Client after the test, unless the Client has specifically instructed otherwise. 12. Samples which are in the Company's possession remain the property of the Client and shall be returned to the Client after the test, unless the Client has specifically instructed otherwise.

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