



香 港 標 準 及 檢 定 中 心
Hong Kong Standards and Testing Centre

Date : 2005-10-31
No. : HM155143

TEST REPORT

Page 1 of 20

Applicant:

Belkin Corporation
501 West Walnut Street Compton California
90220-5221 United States

Description of Samples:

Model name: WIRELESS RF REMOTE W/RCVR
(RECEIVER) FOR IPOD
Model no.: F8Z024
Brand name: BELKIN
FCC ID: K7SF8Z024-TX

Date Samples Received:

2005-09-15

Date Tested:

2005-10-02 to 2005-10-21

Investigation Requested:

FCC Part 15 Regulations-Subpart C

Conclusions:

The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks:

LEE Kam Chuen, EMD
for Chief Executive

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Hong Kong Standards and Testing Centre

Date : 2005-10-31

No. : HM155143

TEST REPORT

Page 2 of 20

CONTENT:

Cover	Page 1 of 20
Content	Page 2-3 of 20
<u>1.0 General Details</u>	
1.1 Test Laboratory	Page 4 of 20
1.2 Applicant Details	Page 4 of 20
Applicant	
HKSTC Code Number for Applicant	
Manufacturer	
1.3 Equipment Under Test [EUT]	Page 5 of 20
Description of EUT operation	
1.4 Date of Order	Page 5 of 20
1.5 Submitted Sample	Page 5 of 20
1.6 Test Duration	Page 5 of 20
1.7 Country of Origin	Page 5 of 20
<u>2.0 Technical Details</u>	
2.1 Investigations Requested	Page 7 of 20
2.2 Test Standards and Results Summary	Page 7 of 20
<u>3.0 Test Results</u>	
3.1 Radiated Emission	Page 8-13 of 20
3.2 Conducted Emission	Page 14 of 20

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Hong Kong Standards and Testing Centre

Date : 2005-10-31

No. : HM155143

TEST REPORT

Page 3 of 20

Appendix A

List of Measurement Equipment

Page 15 of 20

Appendix B

Duty Cycle Correction During 100 msec

Page 16-17 of 20

Appendix D

Photographs

Page 18-20 of 20

香港新界大埔工業村大宏街 10 號

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

Date : 2005-10-31

TEST REPORT

Page 4 of 20

No. : HM155143

1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate
New Territories, Hong Kong

1.2 Applicant Details
Applicant

Belkin Corporation
501 West Walnut Street Compton
California 90220-5221 United States

HKSTC Code Number for Applicant

SHT003

Manufacturer

N/A

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Hong Kong Standards and Testing Centre

Date : 2005-10-31

TEST REPORT

Page 5 of 20

No. : HM155143

**1.3 Equipment Under Test [EUT]
Description of Sample**

Model Name: WIRELESS RF REMOTE W/RCVR (RECEIVER) FOR IPOD
Manufacturer: N/A
Brand Name: BELKIN
Model Number: F8Z024
Input Voltage: The product draws power from the signal port of the console.

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Belkin Corporation, WIRELESS RF REMOTE W/RCVR (RECEIVER) FOR IPOD, the transmission signal is frequency hopping with channel frequency 2433MHz.

1.4 Date of Order

2005-09-15

1.5 Submitted Sample(s):

2 Samples per model

1.6 Test Duration

2005-10-02 to 2005-10-21

1.7 Country of Origin

China

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

Date : 2005-10-31

TEST REPORT

Page 6 of 20

No. : HM155143

2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.4:2003 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2003	N/A	☒	☐	☐
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	☒	☐	☐
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2003	N/A	☒	☐	☐

Note: N/A - Not Applicable

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Hong Kong Standards and Testing Centre

Date : 2005-10-31

TEST REPORT

Page 7 of 20

No. : HM155143

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

Test Requirement:	FCC 47CFR 15.249
Test Method:	ANSI C63.4:2003
Test Date:	2005-10-02
Mode of Operation:	Tx mode

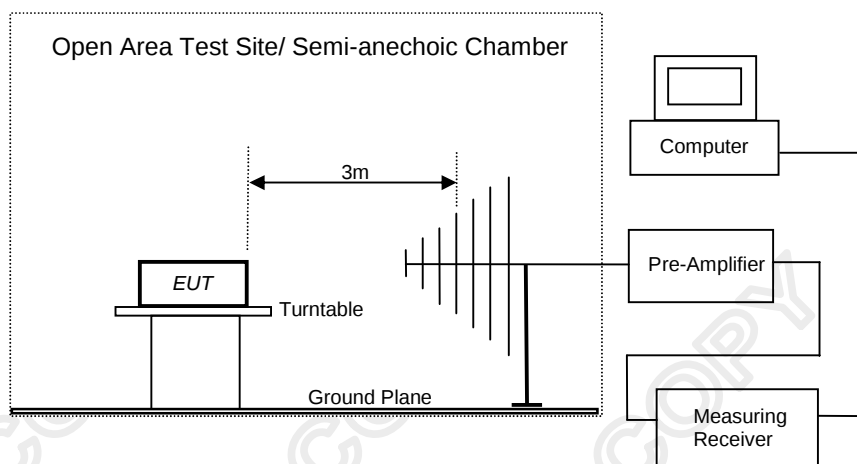
Test Method:

The sample was placed 0.8m above the ground plane on the *OATS / **Semi-anechoic Chamber, measurements in both horizontal and vertical antenna polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The worst case(s) of emission is/are shown in Test Results of the following pages.

* OATS [Open Area Test Site] located at HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657.

** Semi-anechoic chamber located at HKSTC filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756. (This has been used in the report)

Test Setup:



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

Date : 2005-10-31

TEST REPORT

Page 8 of 20

No. : HM155143

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

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2433.0	57.7	34.1	91.8	38,904.5	50,000	Horizontal
* 4866.0	10.7	41.1	51.8	389.0	500	Horizontal
* 7299.0	No Emission Detected				500	Vertical
9732.0					500	Vertical
* 12165.0					500	Vertical
14598.0					500	Vertical
17031.0					500	Vertical
* 19464.0					500	Vertical
21897.0					500	Vertical
24330.0					500	Vertical

Remarks:

- *: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB
1GHz to 18GHz ±4.4dB

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

Date : 2005-10-31

TEST REPORT

Page 9 of 20

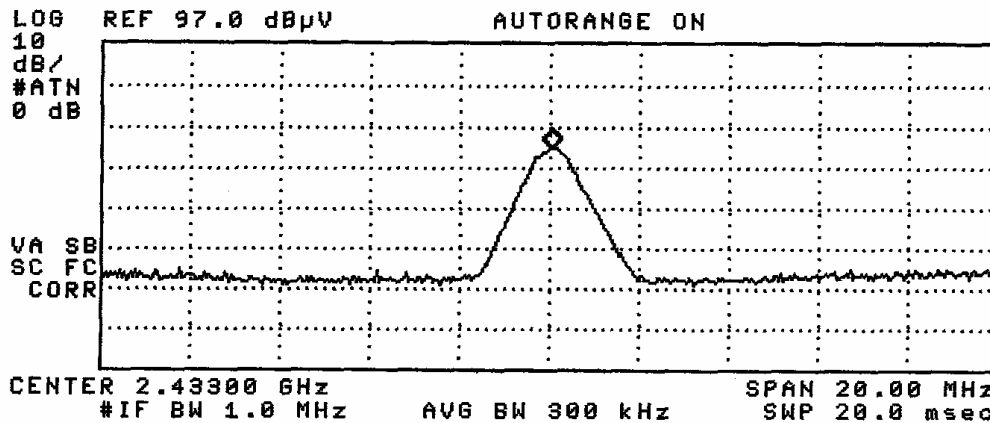
No. : HM155143

Results of Tx mode: Pass

17

SPAN
20.00 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 2.43305 GHz
71.70 dBμV



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

Date : 2005-10-31

TEST REPORT

Page 10 of 20

No. : HM155143

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/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 of Rx Mode: Pass

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m @3m μV/m	Limit @3m μV/m
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB
1GHz to 18GHz ±4.4dB

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

Date : 2005-10-31

TEST REPORT

Page 11 of 20

No. : HM155143

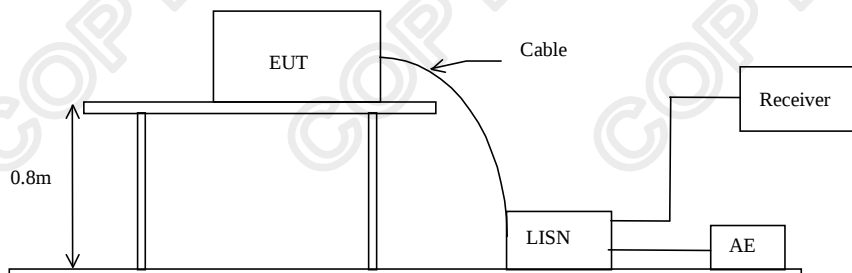
3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.4:2003
Test Date:	2005-09-20
Mode of Operation:	Stand by mode and recharge mode, MP3 play mode and recharge mode

Test Method:

The test was performed in accordance with ANSI C63.4:2003, 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:



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

Date : 2005-10-31

TEST REPORT

Page 12 of 20

No. : HM155143

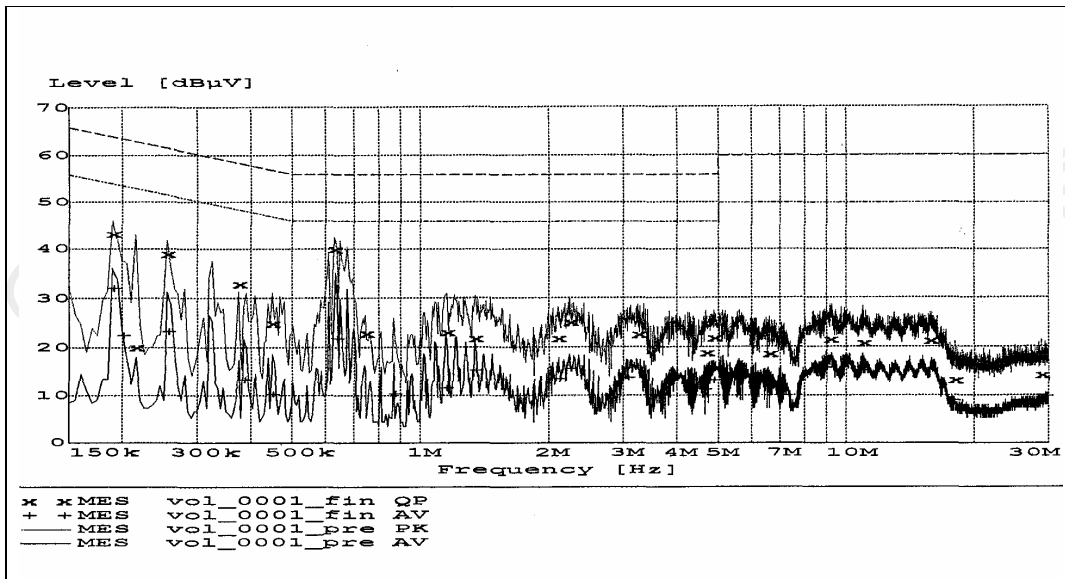
Limits for Conducted Emissions (FCC 47 CFR 15.107):

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.

Results of Stand by mode and recharge mode : Pass



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

Date : 2005-10-31

TEST REPORT

Page 13 of 20

No. : HM155143

Results of Stand by mode and recharge mode : Pass

Conductor	Frequency	Quasi-Peak		Average	
Live or Neutral	MHz	Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	0.190	-*-	-*-	32.0	54
Live	0.200	-*-	-*-	22.5	54
Live	0.255	38.9	62	23.3	52
Live	0.385	-*-	-*-	13.3	48
Live	0.450	24.9	57	10.2	47
Live	0.630	39.9	56	-*-	-*-
Live	0.635	-*-	-*-	21.8	46
Live	0.745	22.9	56	-*-	-*-
Live	1.155	23.1	56	-*-	-*-
Live	1.345	21.9	56	15.3	46
Live	2.105	21.9	56	-*-	-*-
Live	2.110	-*-	-*-	13.5	46
Live	3.050	-*-	-*-	13.7	46
Live	4.685	18.8	56	-*-	-*-
Live	4.870	-*-	-*-	13.2	46
Live	4.895	21.9	56	-*-	-*-
Live	6.620	18.6	60	-*-	-*-
Live	8.960	-*-	-*-	15.8	50
Live	9.175	21.5	60	-*-	-*-
Live	10.935	-*-	-*-	15.8	50

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Hong Kong Standards and Testing Centre

Date : 2005-10-31

TEST REPORT

Page 14 of 20

No. : HM155143

Results of Stand by mode and recharge mode : Pass

Conductor	Frequency	Quasi-Peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live or Neutral	MHz				
Neutral	0.190	43.1	64	-*-	-*-
Neutral	0.215	20.0	63	-*-	-*-
Neutral	0.375	32.8	58	-*-	-*-
Neutral	0.870	-*-	-*-	10.3	46
Neutral	1.150	-*-	-*-	11.6	46
Neutral	2.235	-*-	-*-	15.6	46
Neutral	2.240	25.2	56	-*-	-*-
Neutral	3.250	22.6	56	-*-	-*-
Neutral	4.635	-*-	-*-	11.2	46
Neutral	6.130	-*-	-*-	14.2	50
Neutral	10.970	20.7	60	-*-	-*-
Neutral	15.145	-*-	-*-	15.5	50
Neutral	15.745	21.1	60	-*-	-*-
Neutral	17.820	-*-	-*-	8.8	50
Neutral	18.070	13.1	60	-*-	-*-
Neutral	28.795	14.0	60	-*-	-*-
Neutral	29.475	-*-	-*-	9.8	50

Remarks:

Calculated measurement uncertainty: ± 2.8 dB

-*- Emission greater than 30dB below limit line

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Hong Kong Standards and Testing Centre

Date : 2005-10-31

TEST REPORT

Page 15 of 20

No. : HM155143

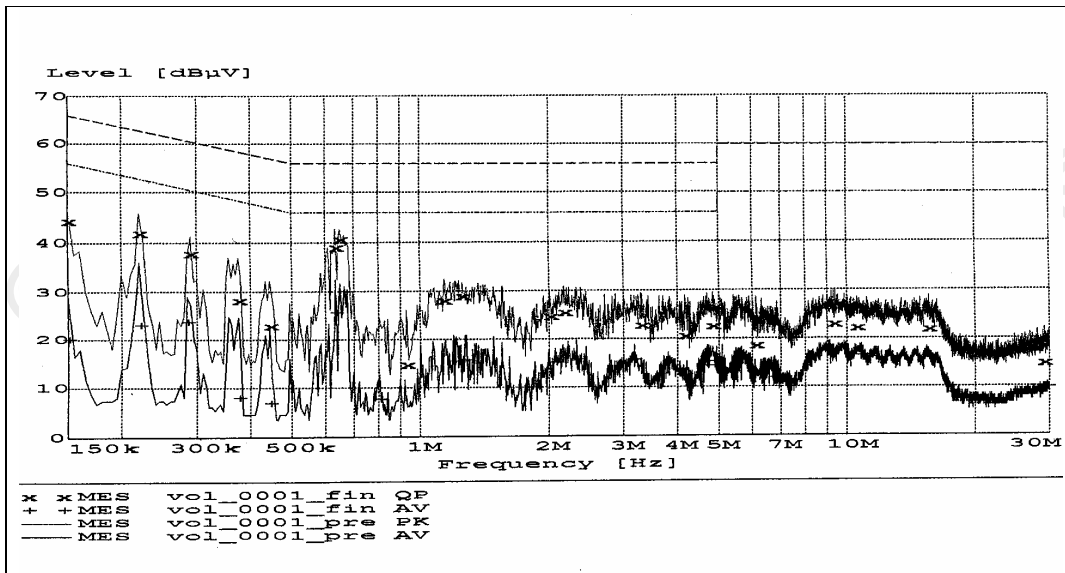
Limits for Conducted Emissions (FCC 47 CFR 15.107):

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.

Results of MP3 play mode and recharge mode : Pass



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

Date : 2005-10-31

TEST REPORT

Page 16 of 20

No. : HM155143

Results of MP3 play mode and recharge mode : Pass

Conductor	Frequency	Quasi-Peak		Average	
Live or Neutral	MHz	Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	0.220	41.9	63	-*-	-*-
Live	0.375	-*-	-*-	7.9	48
Live	0.445	22.9	57	-*-	-*-
Live	0.635	-*-	-*-	25.7	46
Live	0.650	40.6	56	-*-	-*-
Live	0.805	-*-	-*-	7.6	46
Live	1.255	28.9	56	-*-	-*-
Live	2.320	-*-	-*-	15.9	46
Live	3.295	22.8	56	-*-	-*-
Live	4.170	20.6	56	-*-	-*-
Live	4.710	-*-	-*-	15.3	46
Live	6.130	18.6	60	-*-	-*-
Live	6.765	-*-	-*-	11.9	50
Live	9.130	-*-	-*-	17.3	50
Live	10.590	22.2	60	-*-	-*-
Live	10.825	-*-	-*-	16.4	50
Live	17.705	-*-	-*-	8.6	50

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

Date : 2005-10-31

TEST REPORT

Page 17 of 20

No. : HM155143

Results of MP3 play mode and recharge mode : Pass

Conductor	Frequency	Quasi-Peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live or Neutral	MHz				
Neutral	0.150	44.2	66	20.1	56
Neutral	0.220	-*-	-*-	23.1	53
Neutral	0.285	-*-	-*-	23.8	51
Neutral	0.290	37.9	61	-*-	-*-
Neutral	0.375	28.2	58	-*-	-*-
Neutral	0.445	-*-	-*-	6.8	47
Neutral	0.635	39.0	56	-*-	-*-
Neutral	0.930	14.8	56	-*-	-*-
Neutral	1.140	28.1	56	-*-	-*-
Neutral	1.200	-*-	-*-	15.5	46
Neutral	1.275	-*-	-*-	15.7	46
Neutral	2.020	24.8	56	-*-	-*-
Neutral	2.070	-*-	-*-	15.2	46
Neutral	2.175	25.5	56	-*-	-*-
Neutral	3.175	-*-	-*-	15.8	46
Neutral	4.695	-*-	-*-	14.4	46
Neutral	4.845	22.6	56	-*-	-*-
Neutral	9.325	23.0	60	-*-	-*-
Neutral	15.445	-*-	-*-	16.3	50
Neutral	15.625	21.8	60	-*-	-*-
Neutral	29.195	14.8	60	-*-	-*-
Neutral	29.680	-*-	-*-	9.8	50

Remarks:

Calculated measurement uncertainty: ± 2.8 dB

-*- Emission greater than 30dB below limit line

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

Date : 2005-10-31

TEST REPORT

Page 18 of 20

No. : HM155143

Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	15/06/04
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	15/06/04
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	15/06/04
EM010	RF PRESECTOR	HEWLETT PACKARD	HP85685A	3221A01410	15/06/04
EM011	ATTENUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	15/06/04
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	15/06/04
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	15/06/04
EM020	HORN ANTENNA	EMCO	3115	4032	30/07/03
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	30/07/03
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	N/A
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	08/02/03
EM131	PORTABLE SPECTRUM ANALYSER	HEWLETT PACKARD	8595EM	3710A00155	13/01/04
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	04/10/04
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	28/10/03
EM195	ANTENNA POSITIONING MAST	EMCO	2075	2368	N/A
EM196	MULTI-DEVICE CONTROLLER	EMCO	2090	1662	N/A
EM223	HORN ANTENNA	EMCO	3160-09	08163126	18/06/04
EM224	HORN ANTENNA	EMCO	3160-09	08198430	20/06/04

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM078	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	N/A	CM
EM081	SMALL SCREENED ROOM	MIKO INST HK	N/A	N/A	17/10/03
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	14/10/04
EM127	ISOLATION TRANSFORMER 220 TO 300	WING SUN	N/A	N/A	CM
EM142	PULSES LIMITER	R & S	ESH3Z2	357.8810.52	04/08/04
EM181	EMI TEST RECEIVER	R & S	ESIB7	100072	06/01/04
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	17/10/03
EM197	LISN	EMCO	4825/2	1193	05/06/04

Remarks:-

CM Corrective Maintenance
N/A Not Applicable or Not Available
TBD To Be Determined

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For full text of "Conditions of Issuance of Test Report", please refer to overleaf or refer to the website of
STC: www.hkstc.org (the section "Application and Quotation").



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TEST REPORT

Page 19 of 20

No. : HM155143

Appendix B

Photographs of EUT

Front View of the product



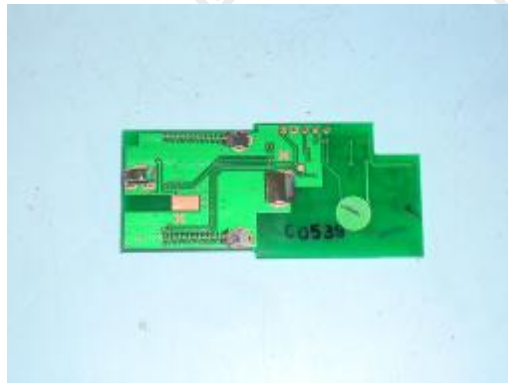
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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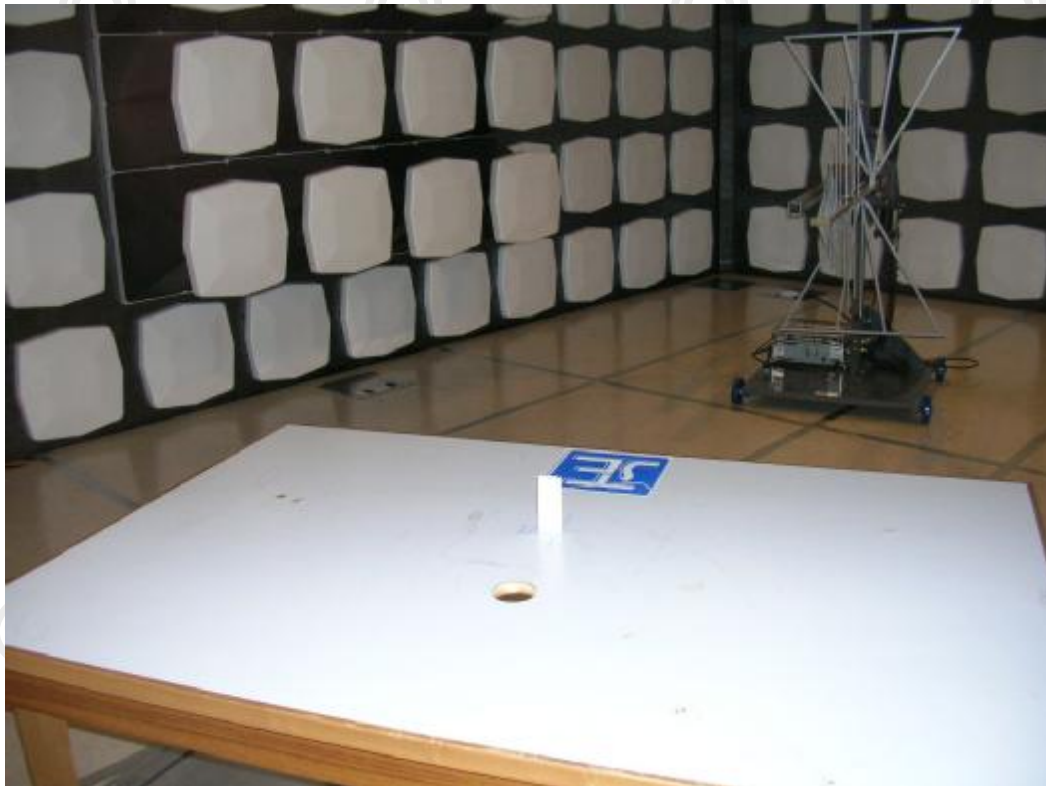
No. : HM155143

TEST REPORT

Page 20 of 20

Photographs of EUT

Measurement of Radiated Emission Test Set Up



***** End of Test Report *****

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