



# FCC 47 CFR PART 15 SUBPART B TEST REPORT

for

**Optical Mouse**

**MODEL: M853PU**

Test Report Number:

70928008-D

Issued for

BEHAVIOR TECH COMPUTER CORP.

20F-B, No. 98, Sec. 1, Sintai 5th Rd., Sijhih City,  
Taipei County 22102, Taiwan (R.O.C.)

Issued By:

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**Revision History**

Rev.		Issue Date		Revisions	Effect Page	Revised By
00				Initial Issue	ALL	

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# 1 TEST RESULT CERTIFICATION

<b>Product:</b>	Optical Mouse
<b>Model:</b>	M853PU
<b>Brand:</b>	BTC, EMPREX
<b>Applicant:</b>	<b>BEHAVIOR TECH COMPUTER CORP.</b> 20F-B, No. 98, Sec. 1, Sintai 5th Rd., Sijhih City, Taipei County 22102, Taiwan (R.O.C.)
<b>Manufacturer:</b>	<b>BEHAVIOR TECH COMPUTER CORP.</b> 20F-B, No. 98, Sec. 1, Sintai 5th Rd., Sijhih City, Taipei County 22102, Taiwan (R.O.C.)
<b>Tested:</b>	October 1 ~ 2, 2007

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B (August 14, 2006), ICES-003 Issue 4 ANSI C63.4-2003	Conducted (Main Port)	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

Note: 1. The test result judgment is decided by the limit of measurement standard  
2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

**Approved by:**

Rex Lai  
Section Manager

**Reviewed by:**

Amanda Wu  
Section Manager



## 2 EUT DESCRIPTION

<b>Product</b>	Optical Mouse
<b>Brand Name</b>	BTC, EMPREX
<b>Model</b>	M853PU
<b>Model Discrepancy</b>	N/A
<b>Applicant</b>	BEHAVIOR TECH COMPUTER CORP.
<b>Housing material</b>	Plastic
<b>Serial Number</b>	70928008
<b>Received Date</b>	September 28, 2007
<b>EUT Power Rating</b>	Powered from host device via USB cable
<b>USB Cable</b>	Shielded 1.50m (Non-detachable)

### 3 TEST METHODOLOGY

#### 3.1. DECISION OF FINAL TEST MODE

1. The following test mode was scanned during the preliminary test:

**Mode 1****Operating**

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Emission	Conducted Emission	<b>Mode 1</b>
	Radiated Emission	<b>Mode 1</b>

Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

#### 3.2. EUT SYSTEM OPERATION

Software Used During the Test	
Operating System	Windows XP
Program Sequence	<ol style="list-style-type: none"><li>1. EMI test program (file name: EMCTEST) was loaded and executed in "Windows XP" mode.</li><li>1. The detect signal was sent to EUT.</li><li>2. Data was sent to the monitor, filling the screen with upper case of "H" patterns.</li><li>3. Test program sequentially all related I/O's of Host PC include EUT and sent "H" patterns to all applicable output ports of Host PC.</li><li>4. Repeat 2 to 4.</li></ol>
RF Management Software	DOS/TEST MODE SETUP

**Note:** Test program is self-repeating throughout the test.



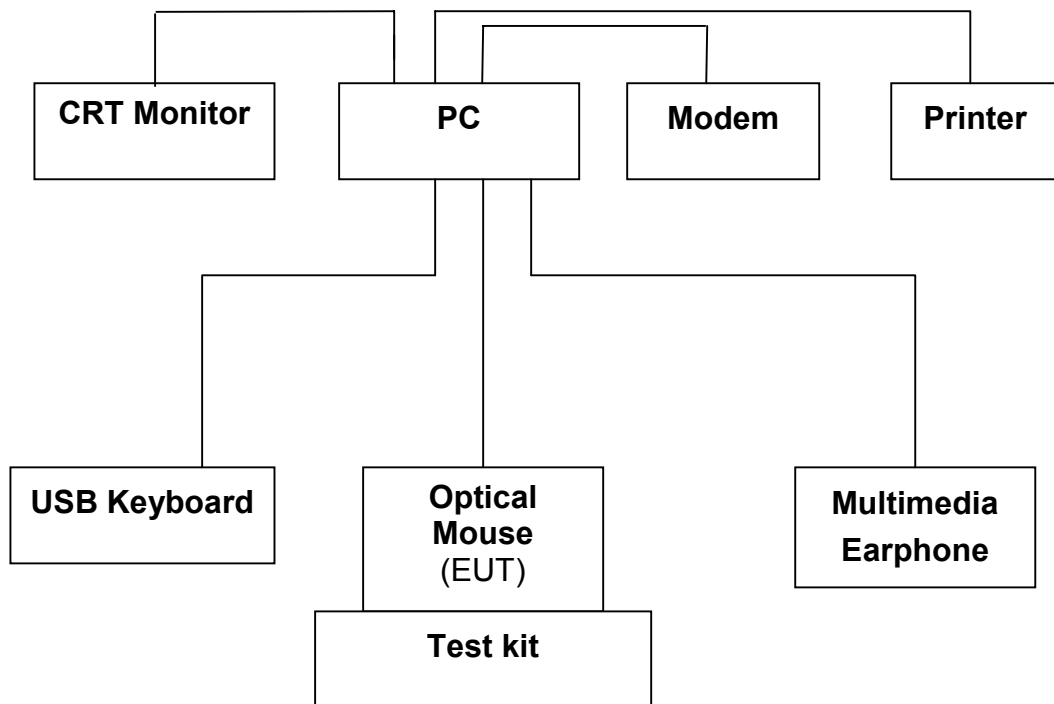
## 4 SETUP OF EQUIPMENT UNDER TEST

### 4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1.	PC	Dimemsion 4600	3Q14B1S	FCC DoC	DELL	N/A	Unshielded, 1.8m
2.	PC	PL926AV	SGH528048P	FCC DoC	HP	N/A	Unshielded, 1.8m
3.	CRT Monitor	959NF	AQ19H2RT706139P	FCC DoC	Samsung	Shielded, 1.8m with 2 cores	Unshielded, 1.8m
4.	CRT Monitor	E773S	MY-0C2627-47603-431	FCC DoC	DELL	Shielded, 1.8m with 2 cores	Unshielded, 1.8m
5.	USB Keyboard	Sk-8115	N/A	FCC DoC	DELL	Shielded, 1.8m	N/A
6.	USB Keyboard	Y-SJ14C	867247-0121	FCC DoC	Logitech	Shielded, 1.8m	N/A
7.	Printer	STYLUS C60	DR3K041515	IFAXDM1417	EPSON	Shielded, 1.2m	N/A
8.	Printer	STYLUS C60	DR3K042012	FCC DoC	EPSON	Shielded, 1.8m	Unshielded, 1.8m
9.	MODEM	DM-1414	304012268	IFAXDM1414	ACEEX	Shielded, 1m	Unshielded, 1.2m
10.	MODEM	DM-1414	211026193	FCC DoC	ACEEX	Shielded, 1m	Unshielded, 1.2m
11.	Multimedia Earphone	ET-E220	N/A	FCC DoC	Ergotech	Unshielded, 1.8m	N/A
12.	Test kit	N/A	N/A	N/A	N/A	N/A	N/A

**Note:** Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

**4.2. CONFIGURATION OF SYSTEM UNDER TEST**



## **5 FACILITIES AND ACCREDITATIONS**

### **5.1. FACILITIES**

All measurement facilities used to collect the measurement data are located at  
No. 81-1, Lane 210, Pa-De 2nd Rd., Luchu Hsiang, Taoyuan Shien, Taiwan.  
No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

### **5.2. ACCREDITATIONS**

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

<b>USA</b>	FCC, A2LA
<b>Japan</b>	VCCI
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA
<b>Taiwan</b>	TAF, BSMI, NCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsemc.com>

### 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	2.81
Radiated emissions	30~200MHz	4.0235
	200~1000MHz	3.8718

*This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .*

*Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be based on the results of the compliance measurement. Consequently the measured emissions being less than the maximum allowed emission result in this being a compliant test or passing test.*

*The acceptable measurement uncertainty value without requiring revision of the compliance statement is based on conducted and radiated emissions being less than  $U_{CISPR}$  which is 3.6dB and 5.2dB respectively. CCS values (called  $U_{Lab}$  in CISPR 16-4-2) is less than  $U_{CISPR}$  as shown in the table above. Therefore, MU need not be considered for compliance.*



## 6 CONDUCTED EMISSION MEASUREMENT

### 6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

**NOTE:** (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 6.2. TEST INSTRUMENTS

Conducted Emission Room				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI TEST RECEIVER 9kHz-30MHz	ROHDE & SCHWARZ	ESHS30	828144/003	10/31/2007
TWO-LINE V-NETWORK 9kHz-30MHz	SCHAFFNER	NNB41	03/10013	06/12/2008
LISN 10kHz-100MHz	EMCO	3825/2	9106-1809	04/01/2008
Test S/W	LabVIEW 6.1 (CCS Conduction Test SW Version_01)			

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

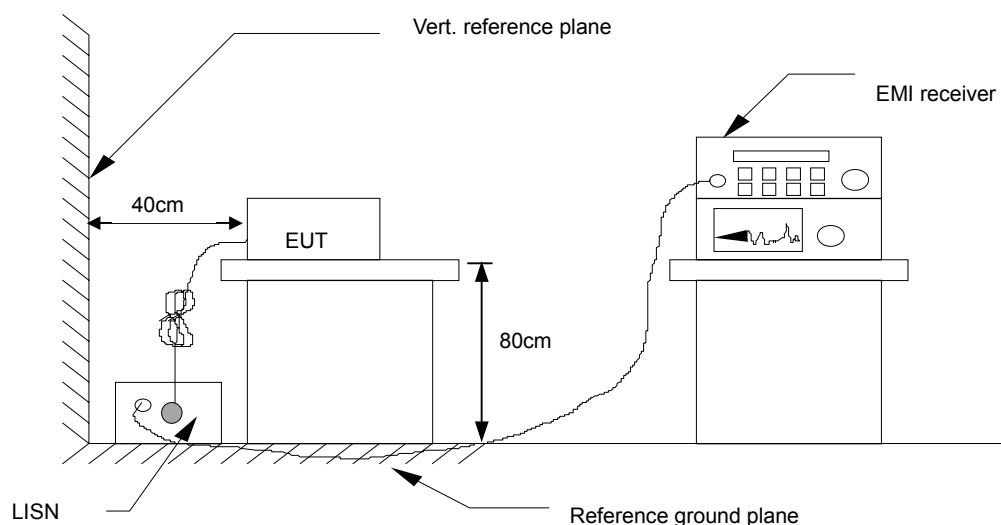
**6.3. TEST PROCEDURES** (please refer to measurement standard or CCS SOP PA-031)**Procedure of Preliminary Test**

- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

**Procedure of Final Test**

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

## 6.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

## 6.5. DATA SAMPLE:

Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
x.xx	43.95	33.00	10.00	53.95	43.00	56.00	46.00	-2.05	-3.00	Pass

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV) = Uncorrected Analyzer/Receiver reading + Insertion loss of LISN, if it > 0.5 dB

Correction Factor (dB) = LISN Factor + Cable loss

Result (dBuV) = Raw reading converted to dBuV and CF added

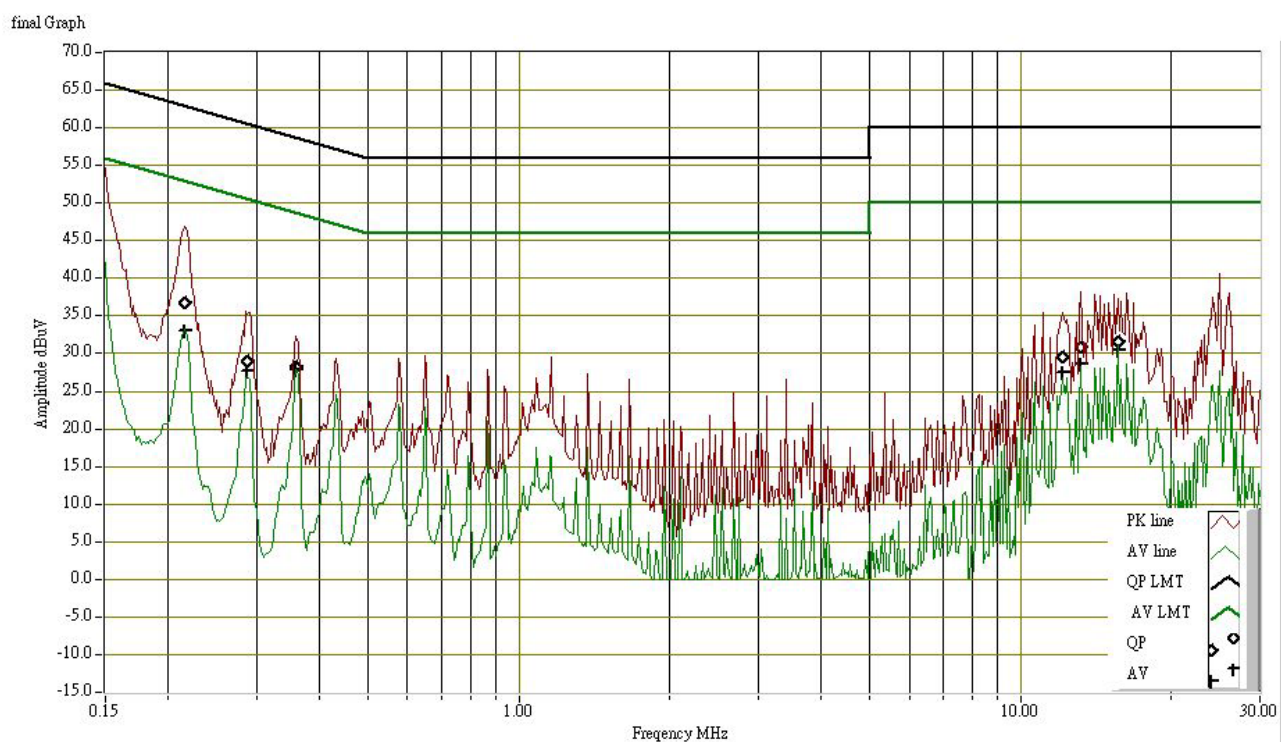
Limit (dBuV) = Limit stated in standard

Margin (dB) = Result (dBuV) – Limit (dBuV)

## 6.6. TEST RESULTS

### CCS Conduction Test

<b>Job No.:</b>	70928008	<b>Line:</b>	L1
<b>Standard:</b>	FCC Part 15B Class B	<b>Date:</b>	2007/10/01
<b>Test Item:</b>	Conduction Emission	<b>Time:</b>	PM 08:16
<b>Temp.(°C)/Hum.(%RH):</b>	25°C/55%RH	<b>Tested By:</b>	Ming Chen
<b>Company:</b>	BEHAVIOR TECH COMPUTER CORP.		
<b>Model:</b>	M853PU		

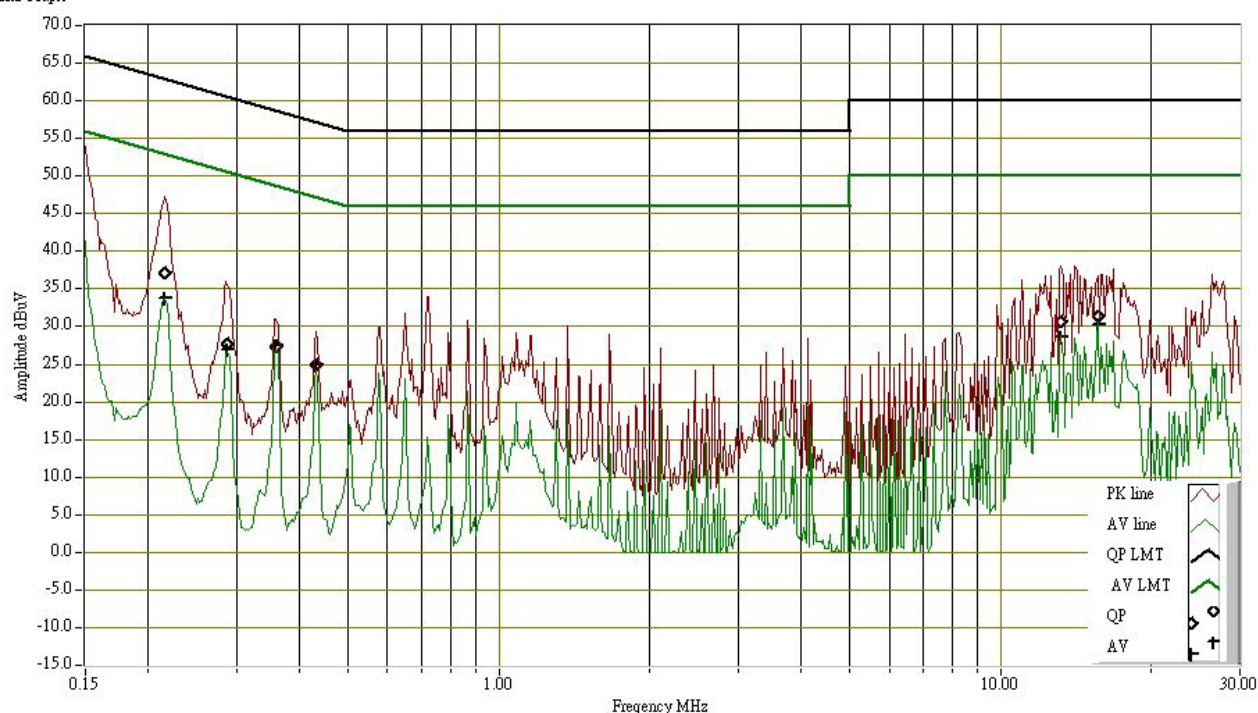


Freq. (MHz)	QP Reading	AV Reading	Corr. factor	QP Result	AV Result	QP Limit	AV Limit	QP Margin	AV Margin	Remark
0.216	36.760	33.070	0.104	36.864	33.174	62.971	52.971	-26.107	-19.797	PASS
0.288	29.050	27.630	0.078	29.128	27.708	60.582	50.582	-31.454	-22.874	PASS
0.360	28.190	27.960	0.051	28.241	28.011	58.729	48.729	-30.487	-20.717	PASS
12.102	29.600	27.420	0.349	29.949	27.769	60.000	50.000	-30.051	-22.231	PASS
13.210	30.890	28.670	0.375	31.265	29.045	60.000	50.000	-28.735	-20.955	PASS
15.616	31.610	30.390	0.426	32.036	30.816	60.000	50.000	-27.964	-19.184	PASS

## CCS Conduction Test

<b>Job No.:</b>	70928008	<b>Line:</b>	L2
<b>Standard:</b>	FCC Part 15B Class B	<b>Date:</b>	2007/10/01
<b>Test Item:</b>	Conduction Emission	<b>Time:</b>	PM 08:04
<b>Temp.(°C)/Hum.(%RH):</b>	25°C/55%RH	<b>Tested By:</b>	Ming Chen
<b>Company:</b>	BEHAVIOR TECH COMPUTER CORP.		
<b>Model:</b>	M853PU		

final Graph



Freq. (MHz)	QP Reading	AV Reading	Corr. factor	QP Result	AV Result	QP Limit	AV Limit	QP Margin	AV Margin	Remark
0.216	37.040	33.730	0.104	37.144	33.834	62.971	52.971	-25.827	-19.137	PASS
0.288	27.740	27.020	0.078	27.818	27.098	60.582	50.582	-32.764	-23.484	PASS
0.360	27.320	26.430	0.051	27.371	26.481	58.729	48.729	-31.357	-22.247	PASS
0.433	24.850	23.900	0.025	24.875	23.925	57.195	47.195	-32.320	-23.270	PASS
13.210	30.620	28.520	0.375	30.995	28.895	60.000	50.000	-29.005	-21.105	PASS
15.616	31.330	30.220	0.426	31.756	30.646	60.000	50.000	-28.244	-19.354	PASS



## 7 RADIATED EMISSION MEASUREMENT

### 7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	dBuV/m (At 10m)	
	Class A	Class B
30 ~ 230	40	30
230 ~ 1000	47	37

Frequency (MHZ)	Class A (dBuV/m) (At 10m)		Class B (dBuV/m) (At 3m)	
	Average	Peak	Average	Peak
Above 960	59.5	79.5	54	74

**NOTE:** (1) The lower limit shall apply at the transition frequencies.  
(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

### 7.2. TEST INSTRUMENTS

Open Area Test Site # 5				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	ADVANTEST	R3132	91700456	09/02/2008
EMI Test Receiver	R&S	ESVS10	846285/016	05/29/2008
Bilog Antenna	Sunol Sciences	JB1	A031905	03/31/2008
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	04	N.C.R
RF Switch	ANRITSU	MP59B	10877	N.C.R
Site NSA	CCS	N/A	N/A	11/24/2007
Test S/W	LabVIEW 6.1 (CCS OATS EMI SW V2.4)			

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
2. N.C.R = No Calibration Request.



### **7.3. TEST PROCEDURES** (please refer to measurement standard or CCS SOP PA-031)

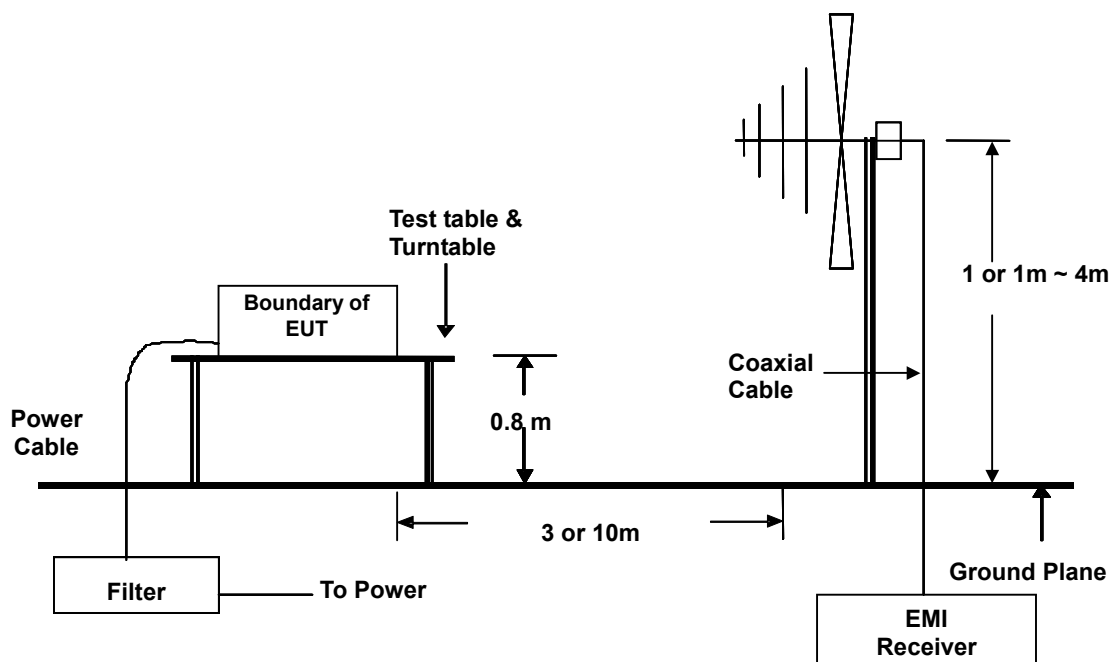
#### **Procedure of Preliminary Test**

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

#### **Procedure of Final Test**

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst-case condition(s) was recorded.

## 7.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

## 7.5. DATA SAMPLE:

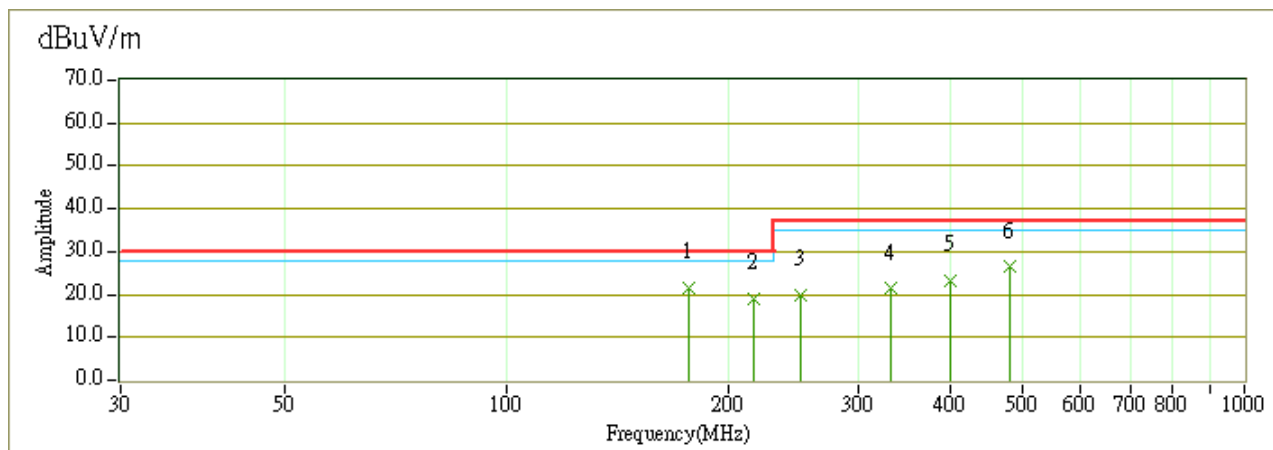
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
xx.xx	16.49	9.86	26.35	30.00	-3.65	116.00	101.00	QP

Frequency (MHz) = Emission frequency in MHz  
 Reading (dBuV) = Uncorrected Analyzer / Receiver reading  
 Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain  
 Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)  
 Limit (dBuV/m) = Limit stated in standard  
 Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)  
 Q.P. = Quasi-Peak

## 7.6. TEST RESULTS

### CCS Radiated Test OATS 5

<b>Job No.:</b>	70927008	<b>Ant. Polar.:</b>	Ver.
<b>Standard:</b>	FCC Class B	<b>Tested Distance:</b>	10m
<b>Test Item:</b>	Radiated Emission	<b>Date:</b>	2007/10/2
<b>Temp.(°C)/Hum.(%RH):</b>	32C/64%RH	<b>Time:</b>	PM 08:17
<b>Company:</b>	BEHAVIOR TECH COMPUTER CORP.	<b>Tested By:</b>	Ming Chen
<b>Model:</b>	M853PU		



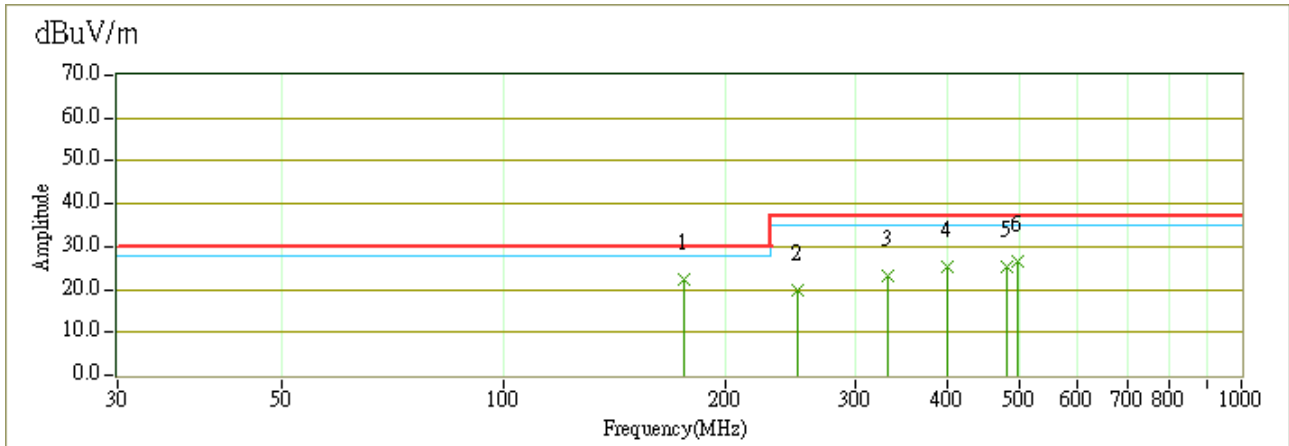
No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	176.36	9.70	11.79	21.49	30.00	-8.51	103.30	100.00	QP
2	216.00	7.20	11.83	19.03	30.00	-10.97	234.60	107.50	QP
3	250.20	3.80	16.00	19.80	37.00	-17.20	169.10	152.00	QP
4	332.31	3.00	18.30	21.30	37.00	-15.70	216.40	100.00	QP
5	399.97	3.30	19.91	23.21	37.00	-13.79	58.10	315.10	QP
6	480.07	3.90	22.46	26.36	37.00	-10.64	204.70	162.40	QP

**REMARKS:** The other emission levels were very low against the limit.



CCS Radiated Test OATS 5

Job No.:	70927008	Ant. Polar.:	Hor.
Standard:	FCC Class B	Tested Distance:	10m
Test Item:	Radiated Emission	Date:	2007/10/2
Temp.(°C)/Hum.(%RH):	32C/64%RH	Time:	PM 07:32
Company:	BEHAVIOR TECH COMPUTER CORP.	Tested By:	Ming Chen
Model:	M853PU		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	175.25	10.50	11.80	22.30	30.00	-7.70	162.50	100.00	QP
2	250.20	4.00	16.00	20.00	37.00	-17.00	360.00	281.90	QP
3	332.31	4.90	18.30	23.20	37.00	-13.80	143.50	227.50	QP
4	399.95	5.50	19.91	25.41	37.00	-11.59	223.90	219.00	QP
5	480.05	2.90	22.46	25.36	37.00	-11.64	239.30	216.50	QP
6	498.73	3.90	22.78	26.68	37.00	-10.32	146.90	196.80	QP

**REMARKS:** The other emission levels were very low against the limit.