

APPLICATION FOR CERTIFICATION
On Behalf of

Bretford Manufacturing, Inc

Bretford PowerSync Cart for iPad

Model Number: H3635LL/A-XX, H3635B/A-XX, H3635ZM/A-XX,
H3635X/A-XX, H3635J/A-XX, H3635SM/A-XX,
H3635BRZ/A-XX, H3635AGT/A-XX, H3635MCA/A-XX,
H3635NSA/A-XX, H3635TWN/A-XX, H3635TLY/A-XX

FCC ID: YY9H3635

Prepared for : Bretford Manufacturing, Inc
11000 Seymour Ave Franklin Park IL, 60131 USA

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F10339
Date of Test : Dec.01~07, 2010
Date of Report : Dec.10, 2010

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TEST REPORT CERTIFICATION

Applicant : Bretford Manufacturing, Inc
Manufacturer : BCD China Electronics Manufacturing (Shenzhen) Ltd
EUT Description : Bretford PowerSync Cart for iPad
FCC ID : YY9H3635
(A)MODEL NO. : H3635LL/A-XX, H3635B/A-XX,
H3635ZM/A-XX, H3635X/A-XX,
H3635J/A-XX, H3635SM/A-XX,
H3635BRZ/A-XX, H3635AGT/A-XX,
H3635MCA/A-XX, H3635NSA/A-XX,
H3635TWN/A-XX, H3635TLY/A-XX
(B)SERIAL NO. : N/A
(C)POWER SUPPLY : AC 120V/60Hz
(D)TEST VOLTAGE : AC 120V/60Hz

Test Standard and Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2008, ANSI C63.4-2009

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits for radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of tests. Also, this report shows that EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : Dec.01~07, 2010 Report of date: Dec.10,2010

Prepared by : Annie Wu Reviewer by : Jamy Yu
Annie Wu/ Supervisor Jamy Yu / Supervisor

Approved & Authorized Signer :

AUDIX[®]

信華科技(深圳)有限公司

Audix Technology (Shenzhen) Co., Ltd.

EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: Ken Lu 12/5/10

Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	FCC Part 15: 2008 ANSI C63.4: 2009	Class B	PASS
Radiated Emission Test	FCC Part 15: 2008 ANSI C63.4: 2009	Class B	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product name : Bretford PowerSync Cart for iPad

Model Number : H3635LL/A-XX, H3635B/A-XX, H3635ZM/A-XX, H3635X/A-XX, H3635J/A-XX, H3635SM/A-XX, H3635BRZ/A-XX, H3635AGT/A-XX, H3635MCA/A-XX, H3635NSA/A-XX, H3635TWN/A-XX, H3635TLY/A-XX
“XX” means different color.
Note: Different model numbers are only for different sales areas, and the actual device are same.

There are the sales area difference

H3635LL/A-XX	: US (Canada, Mexico, S.Korea, Phillipines, Thailand)
H3635B/A-XX	: UK (Singapore, Hong Kong, Malaysia)
H3635ZM/A-XX	: Europe
H3635X/A-XX	: Australia
H3635J/A-XX	: Japan
H3635SM/A-XX	: Switzerland
H3635BRZ/A-XX	: Brazil
H3635AGT/A-XX	: Argentina
H3635MCA/A-XX	: China
H3635NSA/A-XX	: India/South Africa
H3635TWN/A-XX	: Taiwan
H3635TLY/A-XX	: Italy

FCC ID : YY9H3635

Maximum work frequency : 24MHz

Applicant : Bretford Manufacturing, Inc
11000 Seymour Ave Franklin Park IL, 60131 USA

Manufacturer : BCD China Electronics Manufacturing (Shenzhen) Ltd
7F, Bldg B, Cha Xi Jing Fa Industrial Park Xia Wei Yuan,
Gu Shu, Xi Xiang, Bao An Shenzhen 518126

Power Cord : Unshielded, Undetachable, 3m

Date of Test : Dec.01~07, 2010

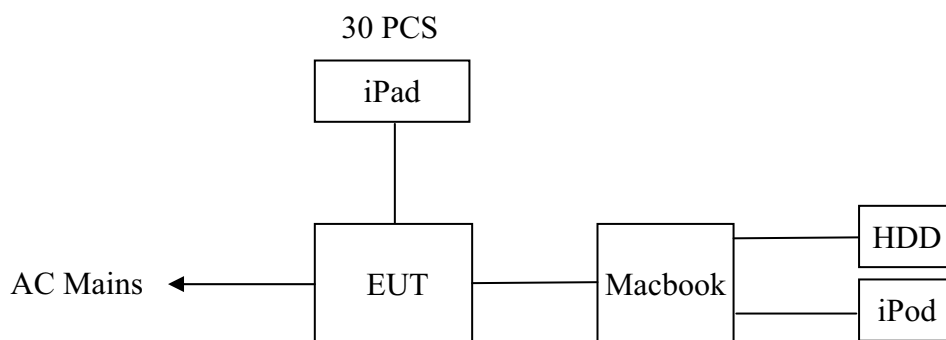
Date of Receipt : Dec.01, 2010

Sample Type : Series production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	iPad	-	Apple	M-MB292CH	-	<input type="checkbox"/> FCC ID <input type="checkbox"/> BSMI ID
		Power Cord: shielded, Undetachable, 3m USB Cable: 45cm, Unshielded, Detachable USB Cable: 1.5m, Unshielded, Detachable				
2.	Mac book	-	-	A1181	458444775HS	<input type="checkbox"/> FCC ID <input type="checkbox"/> BSMI ID
		Power Cord: shielded, Undetachable, 3m USB Cable: 45cm, Unshielded, Detachable USB Cable: 1.5m, Unshielded, Detachable				
3.	HDD	ACS-EMC-HDD02	Terasys	F12-UF	A0100215-53900 18	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: 4912A022
		Power Cord: shielded, Undetachable, 3m USB Cable: 45cm, Unshielded, Detachable USB Cable: 1.5m, Unshielded, Detachable				
4.	iPod nano	ACS-EMC-IP03	APPLE	A1199	YM711H3LVQ5	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R33057
		Power Cord: shielded, Undetachable, 3m USB Cable: 45cm, Unshielded, Detachable USB Cable: 1.5m, Unshielded, Detachable				

2.3. Block Diagram of connection between EUT and simulators



Model 1: iPad was charged from EUT.

Model 2: Macbook transmit data with iPad though EUT and Macbook also transmit data with HDD and iPod.

Note: The Macbook can transmit data with one of 30 PCS iPad or with 30 PCS same time, and according exploratory test, when transmit with 30 PCS iPad same time will lead worse emissions, so the final test was performed with Macbook transmit data with 30 PCS iPad same time.

2.4. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou, Shenzhen,
Guangdong, China

3m Anechoic Chamber : Mar. 31, 2009 File on
Federal Communication Commission
Registration Number: 90454

3m & 10m Anechoic Chamber : Dec. 30, 2009 File on
Federal Communication Commission
Registration Number: 794232

EMC Lab. : Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Feb. 02, 2009

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr.01, 2010

2.5. Test Uncertainty (95% confidence levels, k=2)

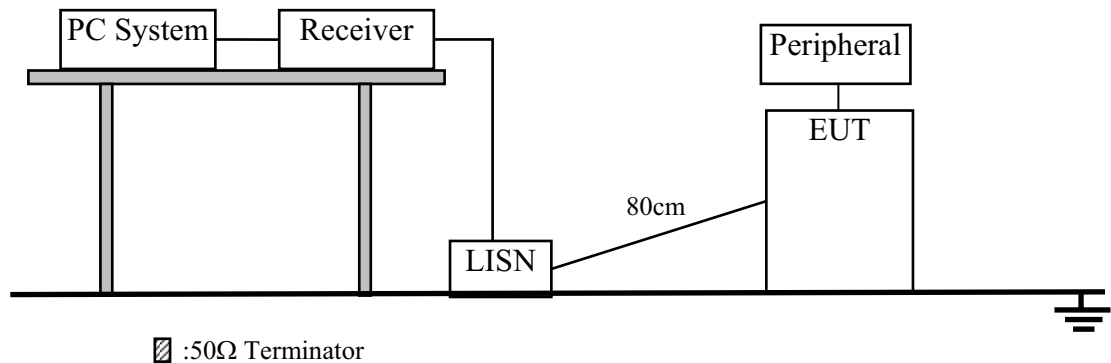
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.64 dB (9kHz to 150kHz)
	3.22 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 10m chamber (Distance: 10m)	4.86dB (30~200MHz, Polarize: H)
	4.98dB (30~200MHz, Polarize: V)
	5.10dB (200M~1GHz, Polarize: H)
	4.98dB (200M~1GHz, Polarize: V)
Uncertainty for test site temperature and humidity	0.3°C
	2%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Nov.05, 10	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Nov.05, 10	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 10	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 10	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 10	1 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 10	1 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 10	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Bretford PowerSync Cart for iPad (EUT)

Model Number : H3635LL/A-XX

Serial Number : N/A

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turned on the power of all equipment.
- 3.5.3. Let the EUT work in test mode (Data Transmitting/ Charging) and measure it.

3.6. Test Procedure

The EUT was placed on the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked. The test results are reported and test results for Conducted Disturbance Test on Section 3.7.

3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: Bretford PowerSync Cart for iPad Model No. : H3635LL/A-XX

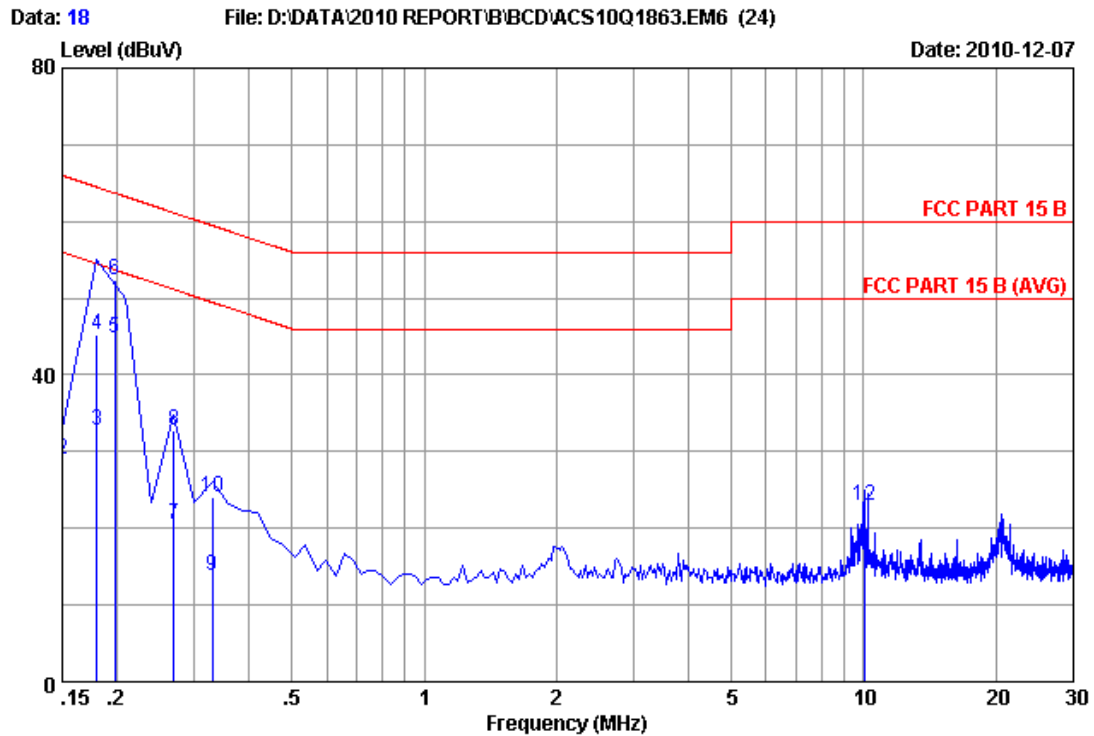
The EUT with the following test modes were tested and selected to read Q.P values, all the test results are listed in next pages.

Test Date: Dec.07, 2010 Temperature: 24°C Humidity: 56%

The details of test modes are as follows :

No.	Test Mode	Reference Test Data No.	
		Line	Neutral
1.	Data Transmitting	#18	#17
2. ※	Charge	#6	#5

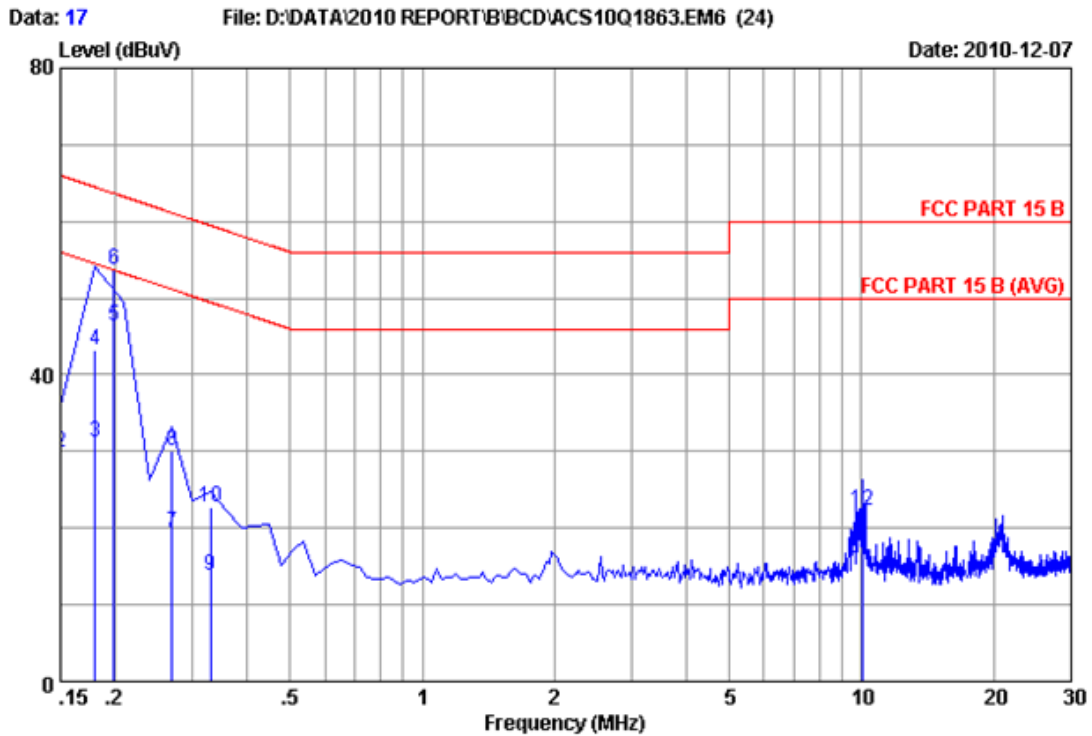
(※ Worst test mode)



Site no :1#conduction Data No :18
 Dis./Ant. :** 2010 ESH2-Z5 LINE
 Limit :FCC PART 15 B
 Env./Ins. :Temp:23' Humi:54% Engineer :Jolly_Xu
 EUT :Bretford PowerSync Cart for iPad
 Power Rating :AC 120V/60Hz
 Test Mode :Data Transmitting
 M/N:H3635LL/A

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.23	9.88	8.50	18.61	56.00	37.39	Average
2	0.15000	0.23	9.88	18.76	28.87	66.00	37.13	QP
3	0.17985	0.22	9.88	22.70	32.80	54.49	21.69	Average
4	0.17985	0.22	9.88	35.03	45.13	64.49	19.36	QP
5	0.19800	0.22	9.88	34.70	44.80	53.69	8.89	Average
6	0.19800	0.22	9.88	42.20	52.30	63.69	11.39	QP
7	0.26940	0.22	9.88	10.30	20.40	51.14	30.74	Average
8	0.26940	0.22	9.88	22.74	32.84	61.14	28.30	QP
9	0.32910	0.23	9.88	3.70	13.81	49.47	35.66	Average
10	0.32910	0.23	9.88	14.05	24.16	59.47	35.31	QP
11	10.060	0.40	9.99	4.10	14.49	50.00	35.51	Average
12	10.060	0.40	9.99	12.65	23.04	60.00	36.96	QP

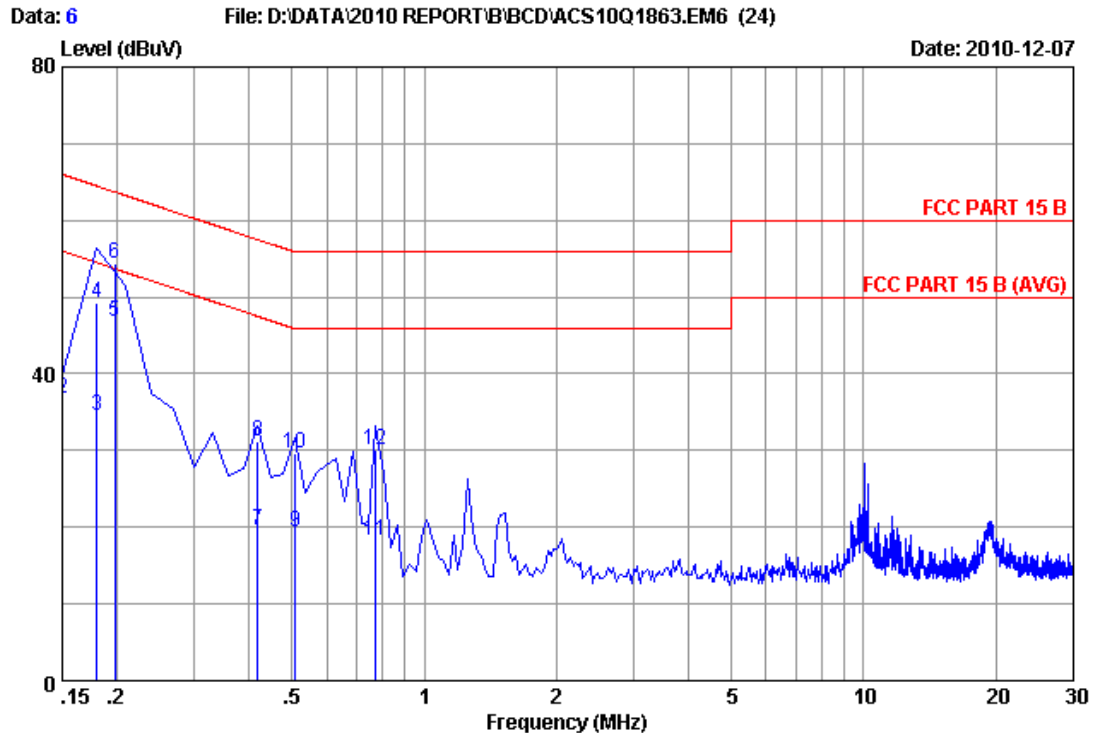
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)
 +Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :1#conduction Data No :17
 Dis./Ant. :** 2010 ESH2-Z5 NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :Temp:23' Humi:54% Engineer :Jolly_Xu
 EUT :Bretford PowerSync Cart for iPad
 Power Rating :AC 120V/60Hz
 Test Mode :Data Transmitting
 M/N:H3635LL/A

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.21	9.88	8.20	18.29	56.00	37.71	Average
2	0.15000	0.21	9.88	19.83	29.92	66.00	36.08	QP
3	0.17985	0.21	9.88	21.20	31.29	54.49	23.20	Average
4	0.17985	0.21	9.88	33.04	43.13	64.49	21.36	QP
5	0.19833	0.21	9.88	36.30	46.39	53.68	7.29	Average
6	0.19833	0.21	9.88	43.70	53.79	63.68	9.89	QP
7	0.26940	0.21	9.88	9.40	19.49	51.14	31.65	Average
8	0.26940	0.21	9.88	20.10	30.19	61.14	30.95	QP
9	0.32910	0.22	9.88	3.70	13.80	49.47	35.67	Average
10	0.32910	0.22	9.88	12.54	22.64	59.47	36.83	QP
11	10.060	0.43	9.99	4.10	14.52	50.00	35.48	Average
12	10.060	0.43	9.99	11.86	22.28	60.00	37.72	QP

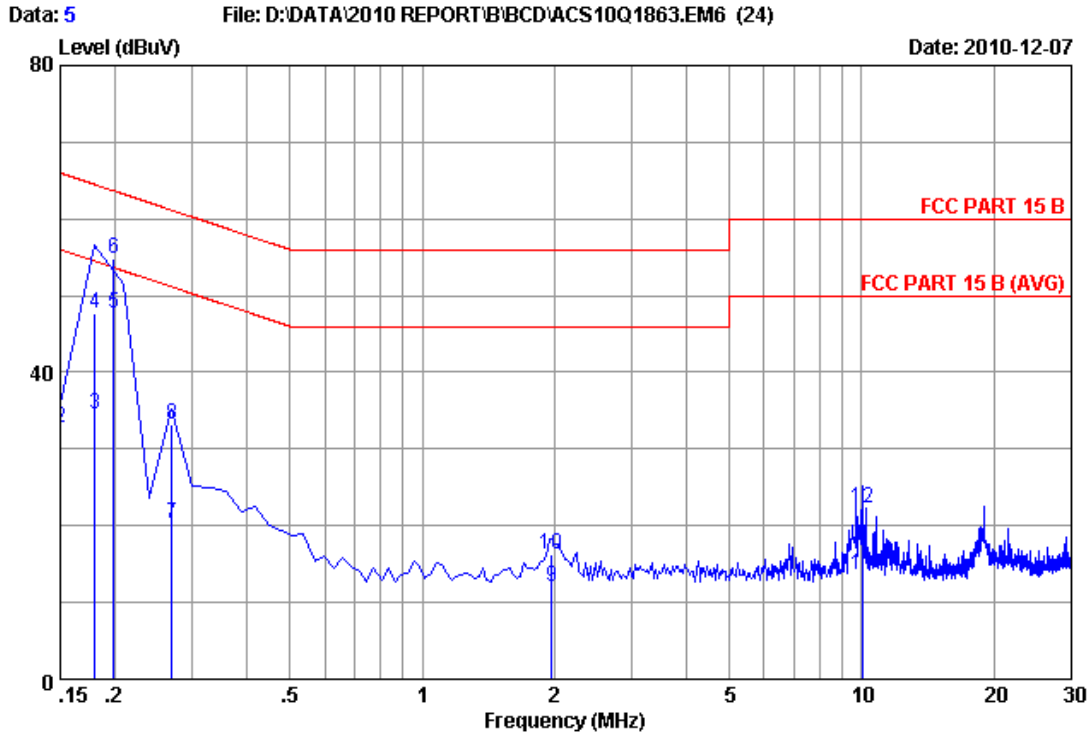
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no : 1#conduction Data No : 6
 Dis./Ant. : ** 2010 ESH2-Z5 LINE
 Limit : FCC PART 15 B
 Env./Ins. : Temp:23' Humi:54% Engineer : Jolly_Xu
 EUT : Bretford PowerSync Cart for iPad
 Power Rating : AC 120V/60Hz
 Test Mode : Charge
 M/N: H3635LL/A

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.23	9.88	12.10	22.21	56.00	33.79	Average
2	0.15000	0.23	9.88	26.72	36.83	66.00	29.17	QP
3	0.17985	0.22	9.88	24.50	34.60	54.49	19.89	Average
4	0.17985	0.22	9.88	39.18	49.28	64.49	15.21	QP
5	0.19744	0.22	9.88	36.80	46.90	53.72	6.82	Average
6	0.19744	0.22	9.88	44.20	54.30	63.72	9.42	QP
7	0.41865	0.24	9.88	9.50	19.62	47.47	27.85	Average
8	0.41865	0.24	9.88	21.18	31.30	57.47	26.17	QP
9	0.50820	0.24	9.88	9.30	19.42	46.00	26.58	Average
10	0.50820	0.24	9.88	19.42	29.54	56.00	26.46	QP
11	0.77685	0.24	9.89	8.20	18.33	46.00	27.67	Average
12	0.77685	0.24	9.89	20.04	30.17	56.00	25.83	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1#conduction Data No :5
 Dis./Ant. :** 2010 ESH2-Z5 NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :Temp:23' Humi:54% Engineer :Jolly_Xu
 EUT :Bretford PowerSync Cart for iPad
 Power Rating :AC 120V/60Hz
 Test Mode :Charge
 M/N:H3635LL/A

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.21	9.88	8.80	18.89	56.00	37.11	Average
2	0.15000	0.21	9.88	22.71	32.80	66.00	33.20	QP
3	0.17985	0.21	9.88	24.50	34.59	54.49	19.90	Average
4	0.17985	0.21	9.88	37.49	47.58	64.49	16.91	QP
5	0.19862	0.21	9.88	37.50	47.59	53.67	6.08	Average
6	0.19862	0.21	9.88	44.80	54.89	63.67	8.78	QP
7	0.26940	0.21	9.88	10.20	20.29	51.14	30.85	Average
8	0.26940	0.21	9.88	23.04	33.13	61.14	28.01	QP
9	1.971	0.26	9.90	1.87	12.03	46.00	33.97	Average
10	1.971	0.26	9.90	6.19	16.35	56.00	39.65	QP
11	10.060	0.43	9.99	3.20	13.62	50.00	36.38	Average
12	10.060	0.43	9.99	11.81	22.23	60.00	37.77	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)
 +Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION TEST

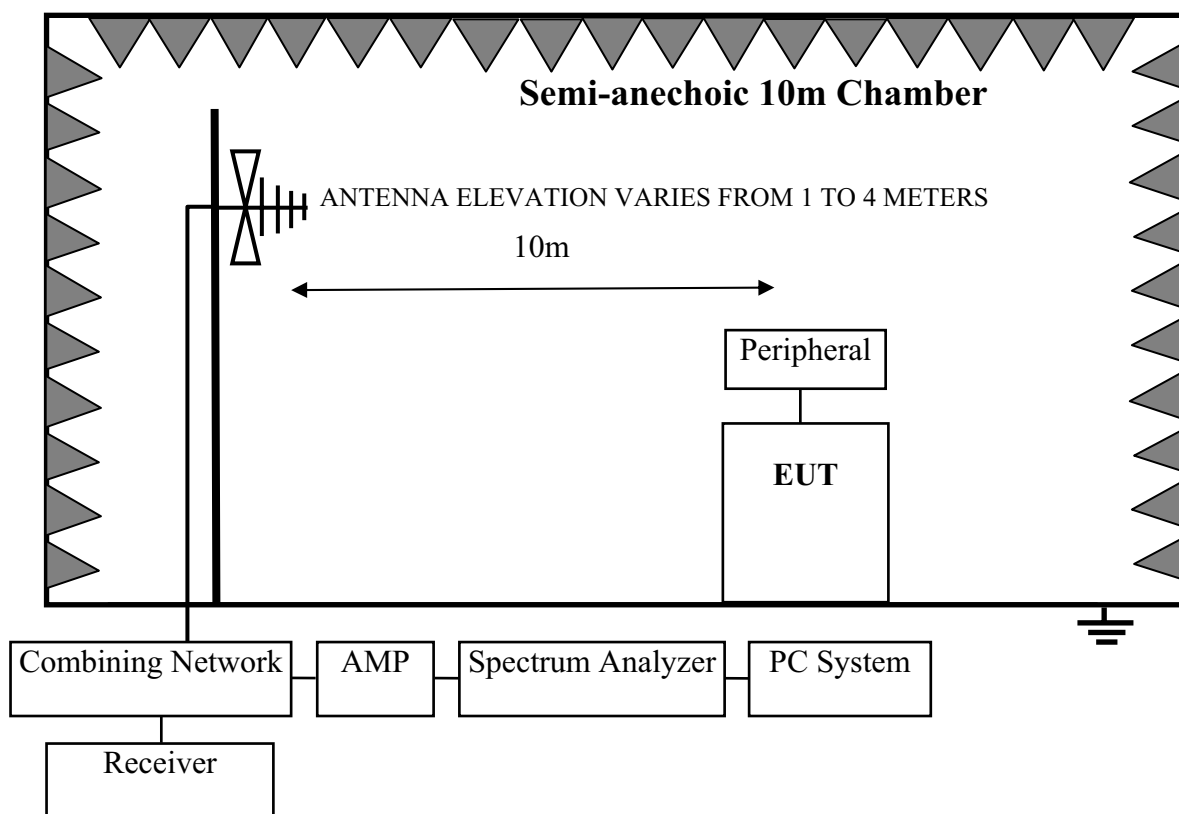
4.1. Test Equipment

Frequency rang: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	10m Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMC Analyzer	Agilent	E7405A	MY42000131	May.08, 10	1 Year
3	EMC Analyzer	Agilent	E7405A	MY45116588	May.08, 10	1 Year
4	Test Receiver	Rohde & Schwarz	ESCI	100842	May.08, 10	1 Year
5	Amplifier	Agilent	8447D	2944A10684	May.08, 10	1 Year
6	Amplifier	Agilent	8447D	2944A11140	May.08, 10	1 Year
7	Bilog Antenna	Schaffner	CBL6112D	25238	Mar.27, 10	1 Year
8	Bilog Antenna	Schaffner	CBL6112D	25237	Mar.27, 10	1 Year
9	RF Cable	MIYAZAKI	8D-FB	10m Chamber No.1	May.08, 10	1 Year
10	RF Cable	MIYAZAKI	8D-FB	10m Chamber No.2	May.08, 10	1 Year
11	Coaxial Switch	Anritsu	MP59B	6200766906	May.08, 10	1 Year
12	Coaxial Switch	Anritsu	MP59B	6200766905	May.08, 10	1 Year
13	Coaxial Switch	Anritsu	MP59B	6200313662	May.08, 10	1 Year

4.2. Block Diagram of Test Setup

4.2.1. Anechoic Chamber Setup Diagram (30-1000MHz)



4.3. Radiated Emission Limit

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37

Remark: (1) Emission level = Antenna Factor + Cable Loss + Reading

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.5. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 4.2.

4.6. Test Procedure

The EUT was placed on the ground plane. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 10 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission Test.

According FCC Part15A:15.32 requirements, test was performed with device installed in a typical enclosure, and both with enclosure's cover removed and installed. Test also performed with enclosure in vertical and horizontal position.

The bandwidth of the EMI test receiver (R&S ESCI) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

4.7. Radiated Emission Test Results

PASS.

EUT: Bretford PowerSync Cart for iPad Model No. : H3635LL/A-XX

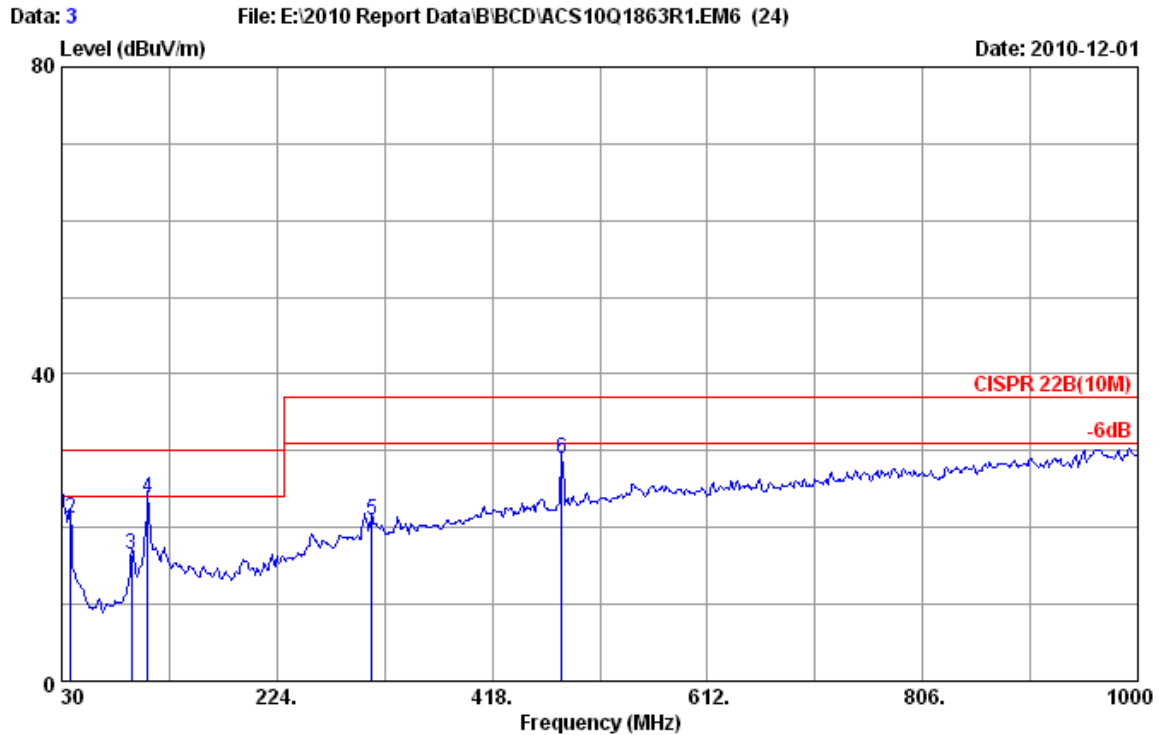
The EUT with the following test modes were tested and selected to read Q.P values, all the test results are listed in next pages.

Test Date: Dec.01, 2010 Temperature: 24℃ Humidity: 56%

The details of test modes are as follows :

No.	Test Mode	Reference Test Data No.	
		Horizontal	Vertical
1. ✕	Data Transmitting	#3	#4
2.	Charge	#16	#15

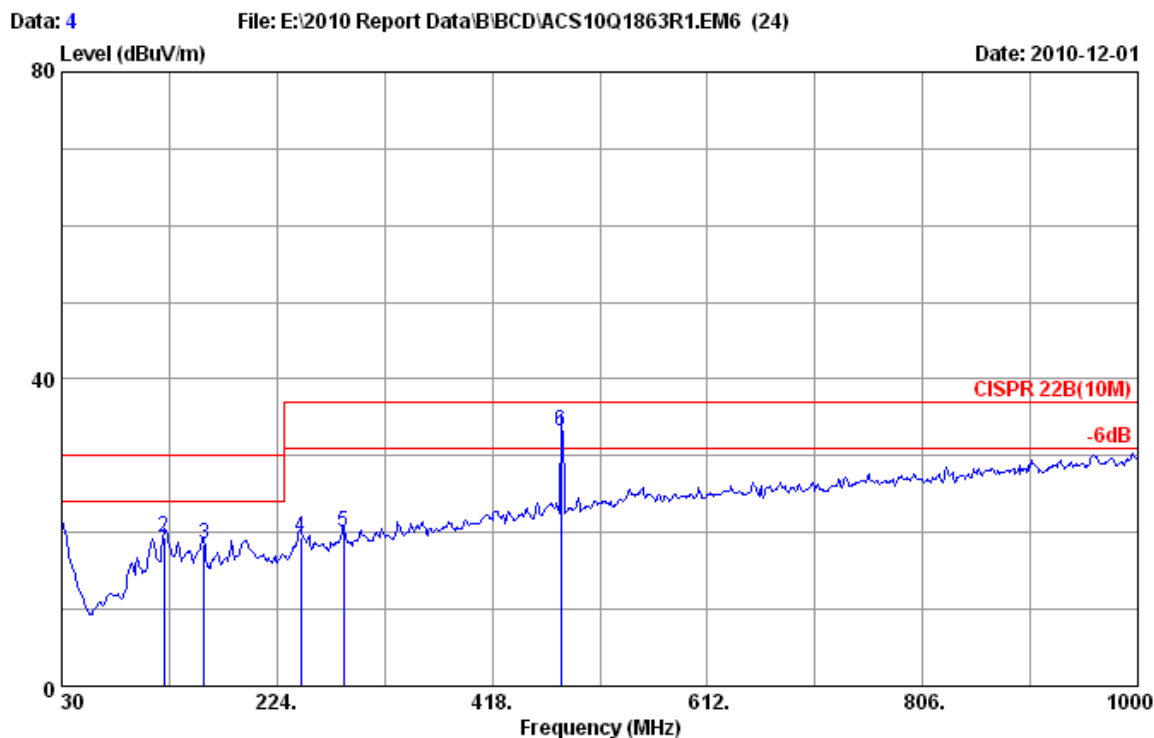
(✕ Worst test mode)



Site no. : 10m Chamber Test Site Data No. : 3
 Dis. / Ant. : 10m 10 CBL6112D 25238 Ant. pol. : HORIZONTAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : Chris
 EUT : Bretford PowerSync Cart for iPad
 Power Rating : AC 120V/60Hz
 Test Mode : Data Transmitting
 : M/N:H3635LL/A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	19.00	0.75	4.18	23.93	30.00	6.07	QP
2	37.760	13.74	0.83	6.69	21.26	30.00	8.74	QP
3	93.050	9.78	1.38	5.22	16.38	30.00	13.62	QP
4	107.600	11.58	1.50	10.66	23.74	30.00	6.26	QP
5	309.360	13.50	3.12	4.26	20.88	37.00	16.12	QP
6	481.050	17.12	4.08	7.71	28.91	37.00	8.09	QP

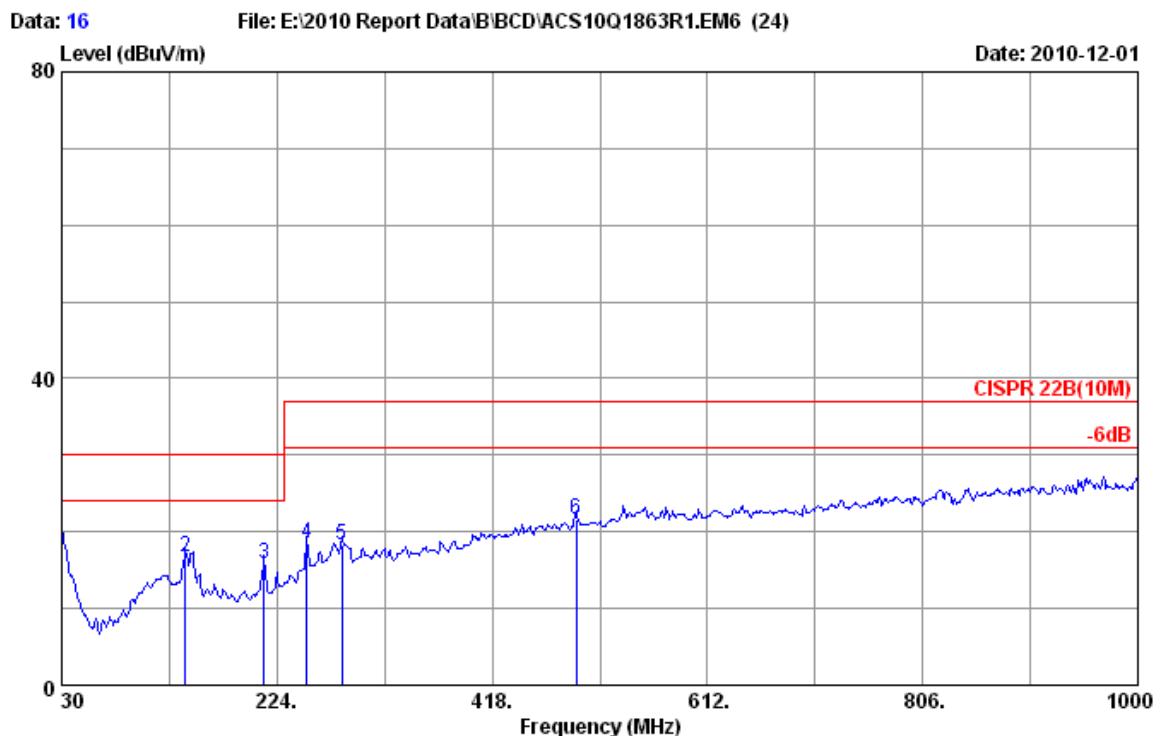
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 30.000 MHz with corrected signal level of 23.93 dBuV/m (Limit is 30.00 dBuV/m) when the antenna was at horizontal polarization and at 1.0m high and the turn table was at 310°.
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



Site no. : 10m Chamber Test Site Data No. : 4
 Dis. / Ant. : 10m 10 CBL6112D 25238 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : Chris
 EUT : Bretford PowerSync Cart for iPad
 Power Rating : AC 120V/60Hz
 Test Mode : Data Transmitting
 : M/N:H3635LL/A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	19.00	0.75	1.77	21.52	30.00	8.48	QP
2	122.150	12.35	1.63	5.51	19.49	30.00	10.51	QP
3	158.040	10.18	1.92	6.32	18.42	30.00	11.58	QP
4	245.340	11.85	2.62	4.95	19.42	37.00	17.58	QP
5	284.140	12.88	2.93	4.24	20.05	37.00	16.95	QP
6	480.000	17.10	4.08	12.00	33.18	37.00	3.82	QP

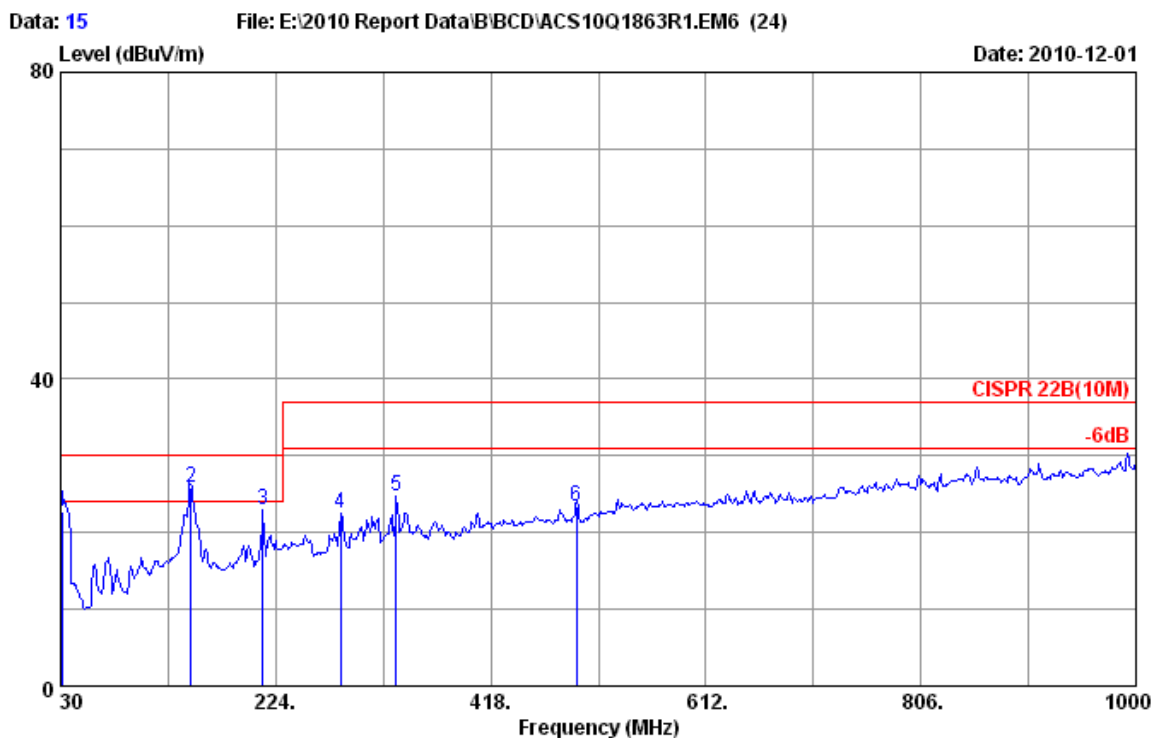
- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 480.000 MHz with corrected signal level of 33.18 dBuV/m (Limit is 37.00 dBuV/m) when the antenna was at vertical polarization and at 1.0m high and the turn table was at 45°.
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



Site no. : 10m Chamber Test Site Data No. : 16
 Dis. / Ant. : 10m 10 CBL6112D 25238 Ant. pol. : HORIZONTAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : Chris
 EUT : Bretford PowerSync Cart for iPad
 Power Rating : AC 120V/60Hz
 Test Mode : Charge
 : M/N:H3635LL/A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	19.00	0.75	-0.26	19.49	30.00	10.51	QP
2	141.550	10.96	1.79	3.98	16.73	30.00	13.27	QP
3	212.360	8.98	2.35	4.55	15.88	30.00	14.12	QP
4	251.160	12.38	2.67	3.34	18.39	37.00	18.61	QP
5	282.200	12.84	2.92	2.60	18.36	37.00	18.64	QP
6	493.660	17.34	4.15	0.22	21.71	37.00	15.29	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Test Site Data No. : 15
 Dis. / Ant. : 10m 10 CBL6112D 25238 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : Chris
 EUT : Bretford PowerSync Cart for iPad
 Power Rating : AC 120V/60Hz
 Test Mode : Charge
 : M/N:H3635LL/A

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	17.64	0.77	4.38	22.79	30.00	7.21	QP
2	147.775	10.48	1.84	13.64	25.96	30.00	4.04	QP
3	212.360	8.98	2.35	11.52	22.85	30.00	7.15	QP
4	282.200	12.84	2.92	6.78	22.54	37.00	14.46	QP
5	332.640	13.76	3.26	7.63	24.65	37.00	12.35	QP
6	495.600	17.36	4.16	1.84	23.36	37.00	13.64	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]