

Certificate of Compliance

We, **SPECTRUM RESEARCH & TESTING LABORATORY, INC.**, Herewith confirm that one sample of the following product:

Product : VoIP PBX, PBX System

Trade Name : MIRACALL

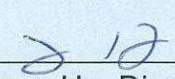
Model No. : MC-IP4008, MC-208, MC-416, MC-616, MC-50,
MC-IP8008, MC-848, MC-832, MC-16128, MC-8030A

Applicant : MIRACALL TECHNOLOGIES CO., LTD.
F/4, NO.29, FOSHAN DA-DAO-BEI ROAD, FOSHAN,
GUANGDONG, CHINA

Manufacturer : MIRACALL TECHNOLOGIES CO., LTD.
F/4, NO.29, FOSHAN DA-DAO-BEI ROAD, FOSHAN,
GUANGDONG, CHINA

has been tested at our laboratory with positive results. The test records were represented in reference No.: **D09063002** according to the following standards:

FCC: FCC Part 15, Subpart B, Class B
ANSI C63.4:2003


Johnson Ho, Director

Issued Date: Jun. 30, 2009



SPECTRUM RESEARCH & TESTING LAB., INC.

Head Office: No. 101-10, Ling 8, Shan-Tong Li, Chungli City, Taoyuan, Taiwan R.O.C.
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DECLARATION OF CONFORMITY

We herewith confirm the following designated product

VoIP PBX, PBX System

Trade Name: MIRACALL

**Model No.: MC-IP4008, MC-208, MC-416, MC-616, MC-50,
MC-IP8008, MC-848, MC-832, MC-16128, MC-8030A**

(Product Identification)

has been tested and found to comply with the requirements of 47 CFR PART 15 regulation & ANSI C63.4 for the evaluation of Class B of electromagnetic compatibility.

This device complies with Part 15 of the FCC rules, operation is subject to the following two conditions.

- (1) This device may not cause harmful interference and,
- (2) This device must accept any interference received,
including interference that may cause undesired operation .

(Identification of regulations / standards)

This declaration is the responsibility of the manufacturer / importer

MIRACALL TECHNOLOGIES CO., LTD.

F/4, NO.29, FOSHAN DA-DAO-BEI ROAD, FOSHAN, GUANGDONG, CHINA

(Name / Address)

MANUFACTURER / IMPORTER

TEST LABORATORY

This declaration is based on the test report (Ref.
No. D09063002 issued by SRT Lab., Inc. on
Jun. 30, 2009

(Name)

(Johnson Ho, Director)

(Date)

Jun. 30, 2009

(Date)

SPECTRUM RESEARCH & TESTING LABORATORY, INC.

NO. 101-10, LING 8, SHAN-TONG LI CHUNG-LI CITY, TAOYUAN, TAIWAN, TEL: (03)498-7684 FAX: (03)498-6528



**Spectrum Research
& Testing Lab., Inc.**
No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan,
R.O.C.

TEST REPORT

Reference No.: D09063002
Report No.: FCBD09040101-02
Page: 1 of 20
Date: Jun. 30, 2009

Product Name: VoIP PBX, PBX System
Trade Name: MIRACALL
Model Number: MC-IP4008, MC-208, MC-416, MC-616, MC-50, MC-IP8008,
MC-848, MC-832, MC-16128, MC-8030A
Applicant: MIRACALL TECHNOLOGIES CO., LTD.
F/4, NO.29, FOSHAN DA-DAO-BEI ROAD, FOSHAN,
GUANGDONG, CHINA
Manufacturer: MIRACALL TECHNOLOGIES CO., LTD.
F/4, NO.29, FOSHAN DA-DAO-BEI ROAD, FOSHAN,
GUANGDONG, CHINA
Date of Receipt: Jun. 30, 2009
Finished date of Test: Mar. 27, 2009
Applicable Standards: FCC Part 15, Subpart B, Class B
ANSI C63.4 :2003

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

This report compared to original Report No.: FCBD09040102 issued on Apr. 01, 2009 differs in Trade Name, Model number, Trade Name and Applicant. We regard it as a serial report.

Checked By :

Thomas Ho, Date: 6/30/2009
(Thomas ho)

Approved By :

JH, Date: 6/30/2009
(Johnson Ho, Director)

NVLAQ

Lab Code: 200099-0
FMNG-059.10 REPORT



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1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.
- The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 Vac/60 Hz, was used during the test.

1.3 EUT MODIFICATION

- No modification in SRT Lab.

 Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C.	<h1>TEST REPORT</h1>	Reference No.: D09063002 Report No.:FCBD09040101-02 Page:4 of 20 Date: Jun. 30, 2009
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2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	VoIP PBX, PBX System
TRADE NAME	MIRACALL
MODEL NO.	MC-IP4008, MC-208, MC-416, MC-616, MC-50, MC-IP8008, MC-848, MC-832, MC-16128, MC-8030A
EUT POWER RATING	AC 230V/50Hz For Adaptor, DC 12V from Adaptor
CABLE	USB Line Unshielded, Detachable 0.75m Speak Output Line Unshielded, Detachable 1.18m
TYPE	Prototype

NOTE :

The model names are different only for the model number.

All models share same PCB layout and circuit, just with different appearance.

For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.2 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL #	FCC ID/DOC	REMARK
N/A				

NOTE :

1. Frequency range to be measured.

Radiated emission is 30 MHz to 1 GHz.

2.3 DESCRIPTION OF TEST MODE

The basic operation mode is Running PC System.

 Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C.	<h1>TEST REPORT</h1>	Reference No.: D09063002 Report No.:FCBD09040101-02 Page:5 of 20 Date: Jun. 30, 2009
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2.4 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:2003 and FCC Part 15 Subpart B Class B.. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL #/S/N#	FCC ID/DOC	CABLE
1	PC	DELL	DCSM/ T8MD82X	DOC	1.5m unshielded power cord
2	Monitor	DELL	E178FPC/ CN-OG335A-64180-867- 16GS-AOO	DOC	1.5m unshielded power cord 1.5m shielded data cable
3	Printer	EPSON	P330A/ DUJK019064	DOC	1.5m unshielded power cord 1.5m shielded data cable
4	Keyboard(PS II)	SAMSUNG	SWT1200/ W3001SPXKA	DOC	1.8m shielded data cable
5	Mouse(USB)	DELL	M056UOA/ G1700RUR	DOC	1.8m shielded data cable
6	Modem	Xin Gan Xian	WS-5614EKV	DOC	1.5m unshielded data cable
7	Mouse(PS II)	GENIUS	GM-050009P	DOC	1.8m shielded data cable

NOTE : For the actual test configuration, please refer to the photos of testing.

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a kind of ITE and according to the specifications provided by the applicant, it must comply with the requirements of the following standards:

FCC Part 15 ,Subpart B, Class B

All tests have been performed and recorded as per the above standards.

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4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION LIMIT

FREQUENCY (MHz)	Class A (dB μ V)		Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.5 - 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 of 0.15 to 0.50 MHz.

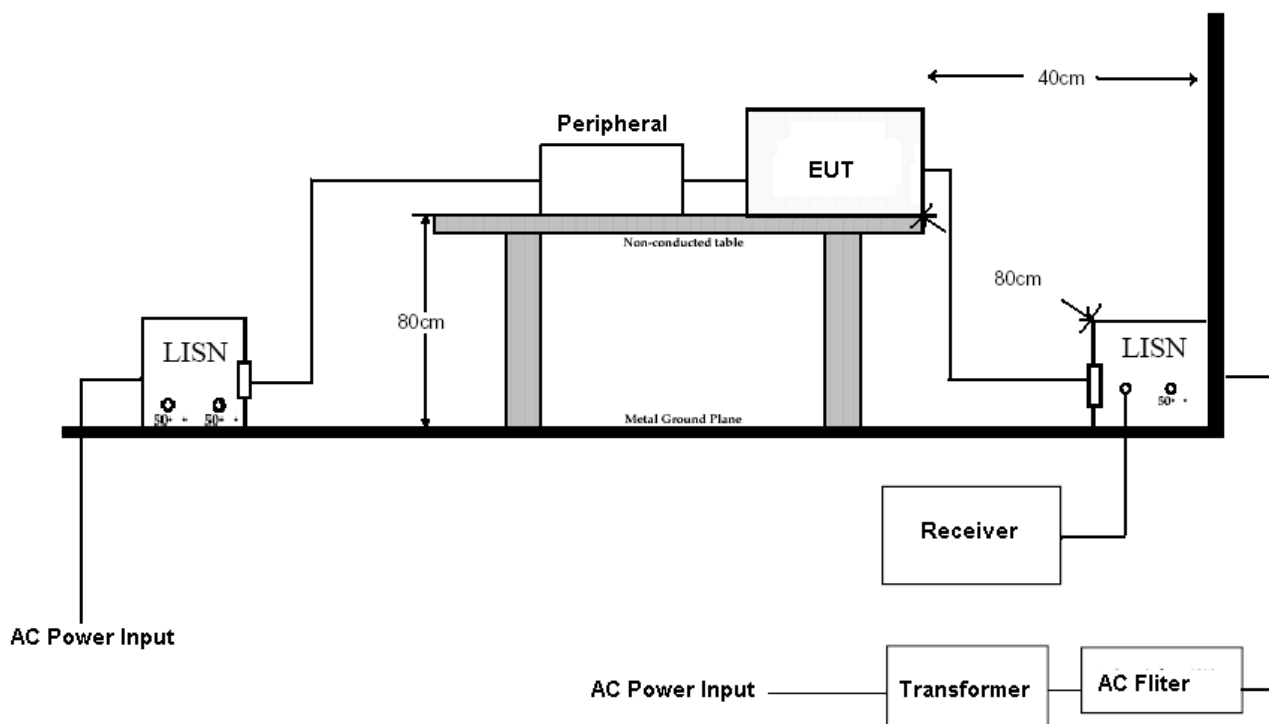
4.2 TEST EQUIPMENT

The following test equipment was used for the test:

EQUIPMENT/ FACILITIES	MANUFACTURER	MODEL#	SERIAL#	Last Cal.	Next Cal.
Test Receiver	Rohde & Schwarz	ESCI	100687	Nov.17,08	Nov.16,09
L.I.S.N.	Rohde & Schwarz	NSLK8128	D-69250	Nov.17,08	Nov.16,09



4.3 TEST SETUP



NOTE:

1. The EUT was put on a wooden table with 0.8m height above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.

4.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and FCC Part 15 Subpart B Class B. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50μH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

4.5 EUT OPERATING CONDITION

The basic operation mode is Running PC System.

 Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C.	<h1>TEST REPORT</h1>	Reference No.: D09063002 Report No.:FCBD09040101-02 Page:8 of 20 Date: Jun. 30, 2009
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4.6 SUMMARY OF CONDUCTED EMISSION TEST RESULT

Temperature:	25°C	Humidity:	55%RH
Frequency Range:	0.15-30MHz	Tested Mode:	Running PC system
Receiver Detector:	QP. and AV.	Mode No.	MC 404
Tested Model:	Mar. 27, 2009	Test By:	Seven

Power Line Measured : Neutral

Freq. (MHz)	Emission level (dBuv/m) (with corrective factor)		Limit (dB μ V)		Margin (dB)	
	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.8160	40.80	34.50	56.00	46.00	-15.20	-11.50
2.5125	40.80	33.90	56.00	46.00	-15.20	-12.10
3.6735	41.00	34.70	56.00	46.00	-15.00	-11.30

Power Line Measured : Line

Freq. (MHz)	Emission level (dBuv/m) (with corrective factor)		Limit (dB μ V)		Margin (dB)	
	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.5145	42.50	39.70	56.00	46.00	-13.50	-6.30
1.4500	39.90	33.80	56.00	46.00	-16.10	-12.20
3.0300	38.60	32.90	56.00	46.00	-17.40	-13.10

NOTE :

1. Measurement uncertainty is +/-2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies were very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

 Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C.	<h1>TEST REPORT</h1>	Reference No.: D09063002
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Temperature:	25°C	Humidity:	55%RH
Frequency Range:	0.15-30MHz	Tested Mode:	Running PC system
Receiver Detector:	QP. and AV.	Mode No.	MC 440
Tested Model:	Mar. 27, 2009	Test By:	Seven

Power Line Measured : Neutral

Freq. (MHz)	Emission level (dBuv/m) (with corrective factor)		Limit (dBμV)		Margin (dB)	
	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.1635	49.70	36.30	65.00	55.00	-15.30	-18.70
11.0220	42.70	37.50	60.00	50.00	-17.30	-12.50
17.5020	41.40	30.10	60.00	50.00	-18.60	-19.90

Power Line Measured : Line

Freq. (MHz)	Emission level (dBuv/m) (with corrective factor)		Limit (dBμV)		Margin (dB)	
	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.1725	52.20	39.50	65.00	55.00	-12.80	-15.50
17.0520	39.00	29.30	60.00	50.00	-21.00	-20.70
17.6460	39.50	28.90	60.00	50.00	-20.50	-21.10

NOTE :

1. Measurement uncertainty is +/-2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies were very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

 Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C.	<h1>TEST REPORT</h1>	Reference No.: D09063002
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Temperature:	25°C	Humidity:	55%RH
Frequency Range:	0.15-30MHz	Tested Mode:	Running PC system
Receiver Detector:	QP. and AV.	Mode No.	MC 808
Tested Model:	Mar. 27, 2009	Test By:	Seven

Power Line Measured : Neutral

Freq. (MHz)	Emission level (dBuv/m) (with corrective factor)		Limit (dBμV)		Margin (dB)	
	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
2.4630	40.20	33.10	56.00	46.00	-15.80	-12.90
2.5570	40.40	33.50	56.00	46.00	-15.60	-12.50
3.7360	39.90	34.20	56.00	46.00	-16.10	-11.80

Power Line Measured : Line

Freq. (MHz)	Emission level (dBuv/m) (with corrective factor)		Limit (dBμV)		Margin (dB)	
	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.5140	43.30	40.10	56.00	46.00	-12.70	-5.90
1.4190	43.10	36.70	56.00	46.00	-12.90	-9.30
1.8820	41.20	32.70	56.00	46.00	-14.80	-13.30

NOTE :

1. Measurement uncertainty is +/-2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies were very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

 Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C.	<h1>TEST REPORT</h1>	Reference No.: D09063002 Report No.:FCBD09040101-02 Page:11 of 20 Date: Jun. 30, 2009
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Temperature:	25°C	Humidity:	55%RH
Frequency Range:	0.15-30MHz	Tested Mode:	Running PC system
Receiver Detector:	QP. and AV.	Mode No.	MC 880
Tested Model:	Mar. 27, 2009	Test By:	Seven

Power Line Measured : Neutral

Freq. (MHz)	Emission level (dBuv/m) (with corrective factor)		Limit (dBμV)		Margin (dB)	
	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.1500	55.30	42.00	65.00	56.00	-9.70	-14.00
17.2500	44.50	31.90	60.00	50.00	-15.50	-18.10
17.3580	44.70	31.80	60.00	50.00	-15.30	-18.20

Power Line Measured : Line

Freq. (MHz)	Emission level (dBuv/m) (with corrective factor)		Limit (dBμV)		Margin (dB)	
	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.1540	54.20	41.30	65.00	56.00	-10.80	-14.70
17.0650	41.00	32.50	60.00	50.00	-19.00	-17.50
17.2590	43.10	33.10	60.00	50.00	-16.90	-16.90

NOTE :

1. Measurement uncertainty is +/-2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies were very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

 Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C.	<h1>TEST REPORT</h1>	Reference No.: D09063002 Report No.:FCBD09040101-02 Page:12 of 20 Date: Jun. 30, 2009
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5. RADIATED EMISSION TEST

5.1 RADIATED EMISSION LIMIT

FCC Part 15, Subpart B limit of radiated emission for frequency below 1000 MHz

FREQUENCY (MHz)	Class B (dB μ V/m) (at 3m)
	Q.P.
30 - 88	40.0
88 - 216	43.5
216 -960	46.0
Above960	54.0

NOTE:

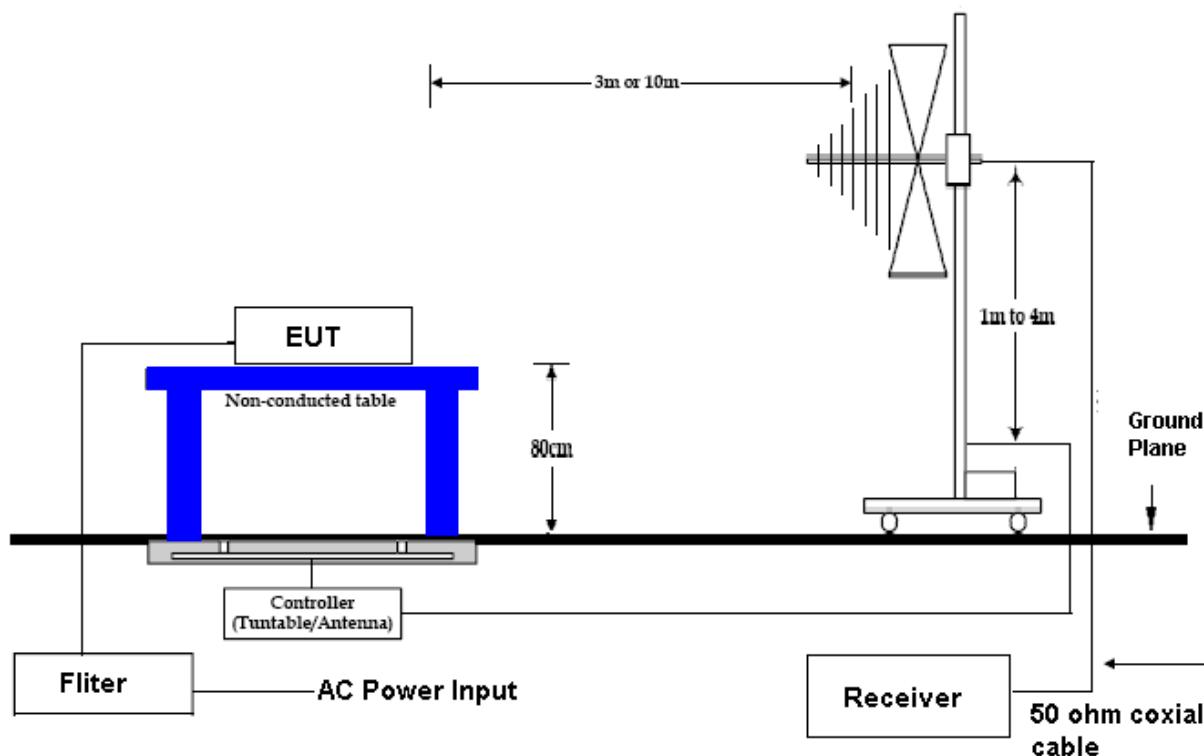
1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

5.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

EQUIPMENT/ FACILITIES	MANUFACTURER	MODEL#	SERIAL#	Last Cal.	Next Cal.
Test Receiver	Rohde & Schwarz	ESPI	100097	Nov.17,08	Nov.16,09
Spectrum Analyzer	Rohde & Schwarz	ESPI	100097	Nov.17,08	Nov.16,09
Amplifier	HP	8447D	1937A02492	Nov.17,08	Nov.16,09
Bilog Antenna	Rohde & Schwarz	VULB9163	9163-324	Nov.17,08	Nov.16,09

5.3 TEST SET-UP



NOTE :

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.

5.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and FCC Part 15 Subpart B Class B. The frequency spectrum measured started from 30 MHz. Under 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

5.5 EUT OPERATING CONDITION

Same as section 4.5 of this report.

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5.6 SUMMARY OF RADIATED EMISSION TEST RESULT

Temperature:	25°C	Humidity:	50 %RH
Frequency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	Running PC system
Tested By:	Seven	Mode No.	MC 404
Tested Date:	Mar. 24, 2009		

Antenna Polarization: Horizontal

Frequency (MHz)	Emission level (dB μ V/m) (with corrective factor)	Limit (dB μ V/m)	Margin (dB)	EL(m)	AZ(°)
30.0000	36.20	40.00	-3.80	1.50	27
53.0000	36.60	40.00	-3.40	2.40	150
84.0000	34.60	40.00	-5.40	2.60	240
105.0000	36.10	43.50	-7.40	1.00	160
125.0000	35.10	43.50	-8.40	1.20	265
150.0000	35.20	43.50	-8.30	2.00	247

Power Line Measured : Line

Frequency (MHz)	Emission level (dB μ V/m) (with corrective factor)	Limit (dB μ V/m)	Margin (dB)	EL(m)	AZ(°)
111.4000	36.10	43.50	-7.40	1.00	140
125.0000	35.90	43.50	-7.60	1.20	125
156.0000	32.40	43.50	-11.10	1.50	164
249.0000	40.60	46.00	-5.40	1.30	40
375.3000	40.60	46.00	-5.40	1.50	120
400.5000	40.70	46.00	-5.30	2.10	185

NOTE :

1. Measurement uncertainty is +/-2dB.
2. "": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

**Spectrum Research
& Testing Lab., Inc.**

No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan,
R.O.C.

TEST REPORT

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Temperature:	25°C	Humidity:	50 %RH
Frequency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	Running PC system
Tested By:	Seven	Mode No.	MC 440
Tested Date:	Mar. 24, 2009		

Antenna Polarization: Horizontal

Frequency (MHz)	Emission level (dBuv/m) (with corrective factor)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
125.6000	30.80	43.50	-12.70	1.50	26
249.2000	38.20	46.00	-7.80	2.30	150
400.5000	44.00	46.00	-2.00	2.50	240
720.6000	37.50	46.00	-8.50	1.00	160
897.1000	39.80	46.00	-6.20	1.20	267
996.1000	37.80	54.00	-16.20	2.00	241

Power Line Measured : Line

Frequency (MHz)	Emission level (dBuv/m) (with corrective factor)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
30.0000	36.50	40.00	-3.50	1.00	140
53.0000	36.30	40.00	-3.70	1.50	120
55.0000	33.10	40.00	-6.90	1.60	160
105.6000	34.90	43.50	-8.60	1.30	40
125.0000	32.80	43.50	-10.70	1.50	120
154.1000	34.10	43.50	-9.40	2.10	180

NOTE :

1. Measurement uncertainty is +/-2dB.
2. "**": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

 Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C.	<h1>TEST REPORT</h1>		Reference No.: D09063002
			Report No.: FCBD09040101-02
			Page: 16 of 20
			Date: Jun. 30, 2009

Temperature:	25°C	Humidity:	50 %RH
Frequency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	Running PC system
Tested By:	Seven	Mode No.	MC 808
Tested Date:	Mar. 24, 2009		

Antenna Polarization: Horizontal

Frequency (MHz)	Emission level (dBuv/m) (with corrective factor)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
55.2000	33.10	40.00	-6.90	1.00	26
150.2000	35.00	43.50	-8.50	2.00	150
173.5000	34.50	43.50	-9.00	2.60	240
198.7000	35.30	43.50	-8.20	1.50	160
225.0000	36.20	46.00	-9.80	1.20	267

Power Line Measured : Line

Frequency (MHz)	Emission level (dBuv/m) (with corrective factor)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
57.1000	35.60	40.00	-4.40	1.00	140
132.8000	35.60	43.50	-7.90	1.50	120
175.0000	36.60	43.50	-6.90	2.10	160
224.0000	35.10	43.50	-8.40	1.60	40

NOTE :

1. Measurement uncertainty is +/-2dB.
2. "": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

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City, Taoyuan, Taiwan,
R.O.C.

TEST REPORT

Reference No.: D09063002
Report No.:FCBD09040101-02
Page:17 of 20
Date: Jun. 30, 2009

Temperature:	25°C	Humidity:	50 %RH
Frequency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	Running PC system
Tested By:	Seven	Mode No.	MC 880
Tested Date:	Mar. 24, 2009		

Antenna Polarization: Horizontal

Frequency (MHz)	Emission level (dBuv/m) (with corrective factor)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
95.9000	34.90	43.50	-8.60	1.50	28
101.9000	34.40	43.50	-9.10	2.40	150
131.6000	33.00	43.50	-10.50	2.60	240
224.9000	35.10	43.50	-8.40	1.00	168
396.6000	41.60	46.00	-4.40	1.20	260
792.4000	43.40	46.00	-2.60	2.00	246

Power Line Measured : Line

Frequency (MHz)	Emission level (dBuv/m) (with corrective factor)	Limit (dBμV/m)	Margin (dB)	EL(m)	AZ(°)
58.6000	33.50	40.00	-6.50	1.00	138
82.3000	36.30	40.00	-3.70	1.20	124
148.3000	35.60	43.50	-7.90	1.50	167
159.9000	34.70	43.50	-8.80	1.30	46
175.5000	35.50	43.50	-8.00	1.50	120
180.0000	35.80	43.50	-7.70	2.10	185

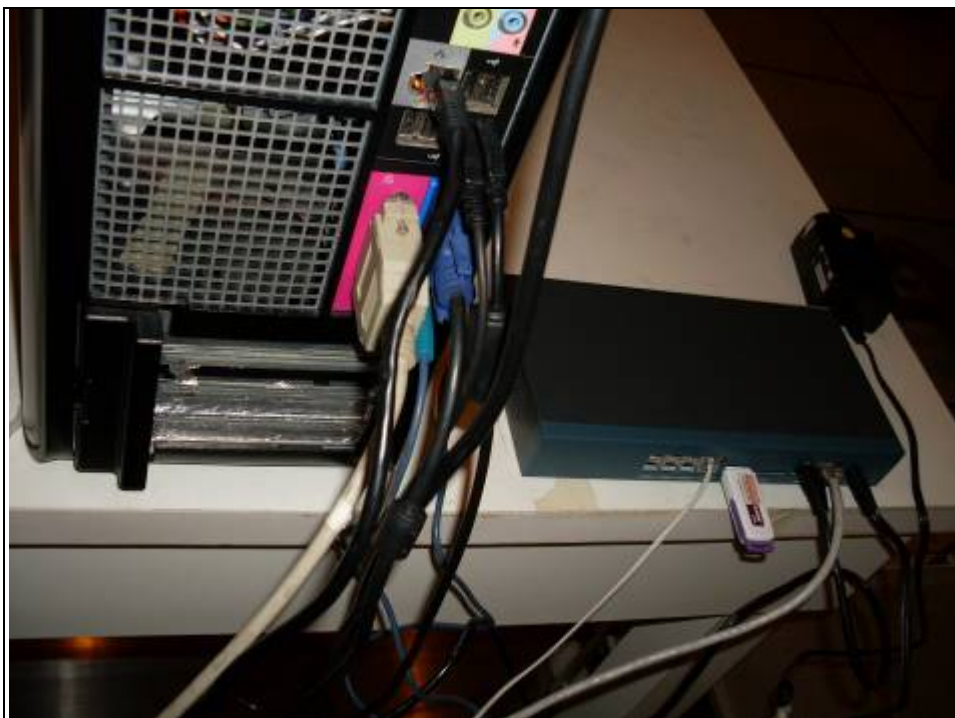
NOTE :

1. Measurement uncertainty is +/-2dB.
2. "**": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.



6. PHOTOS OF TESTING

- Conducted emission test





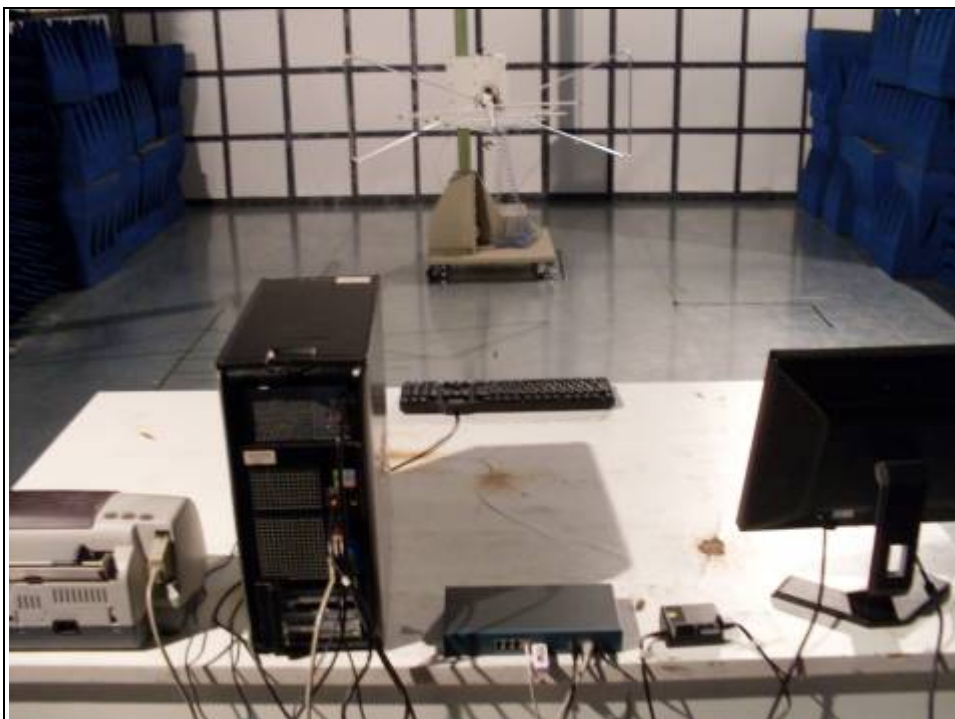
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R.O.C.

TEST REPORT

Reference No.: D09063002
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- Radiated emission test

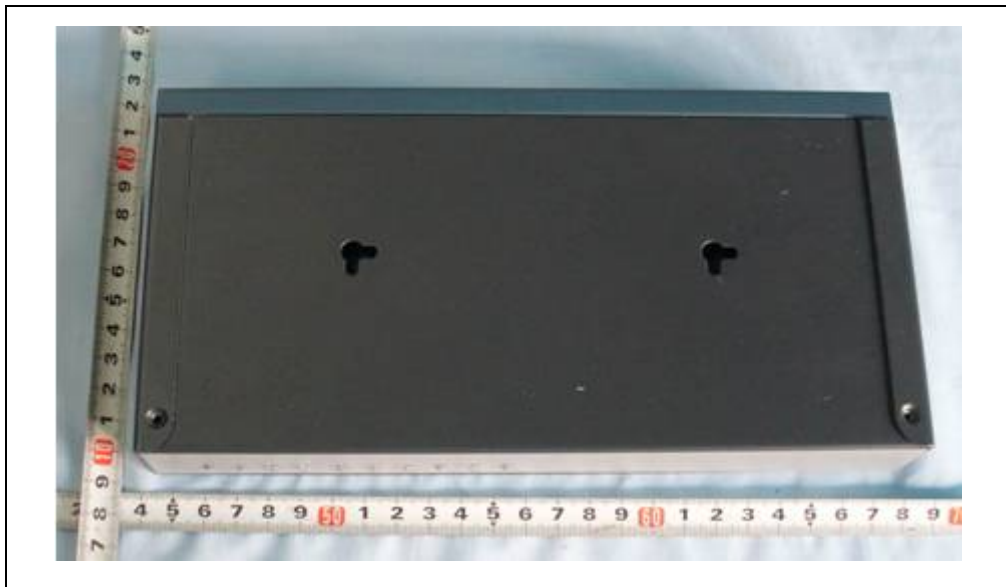


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7. TERMS OF ABBREVIATION

AV.	Average detection
AZ(°)	Turn table azimuth
Correct.	Correction
EL(m)	Antenna height (meter)
EUT	Equipment Under Test
Horiz.	Horizontal direction
LISN	Line Impedance Stabilization Network
NSA	Normalized Site Attenuation
Q.P.	Quasi-peak detection
SRT Lab	Spectrum Research & Testing Laboratory, Inc.
Vert.	Vertical direction

PHOTOS OF EUT – MC404





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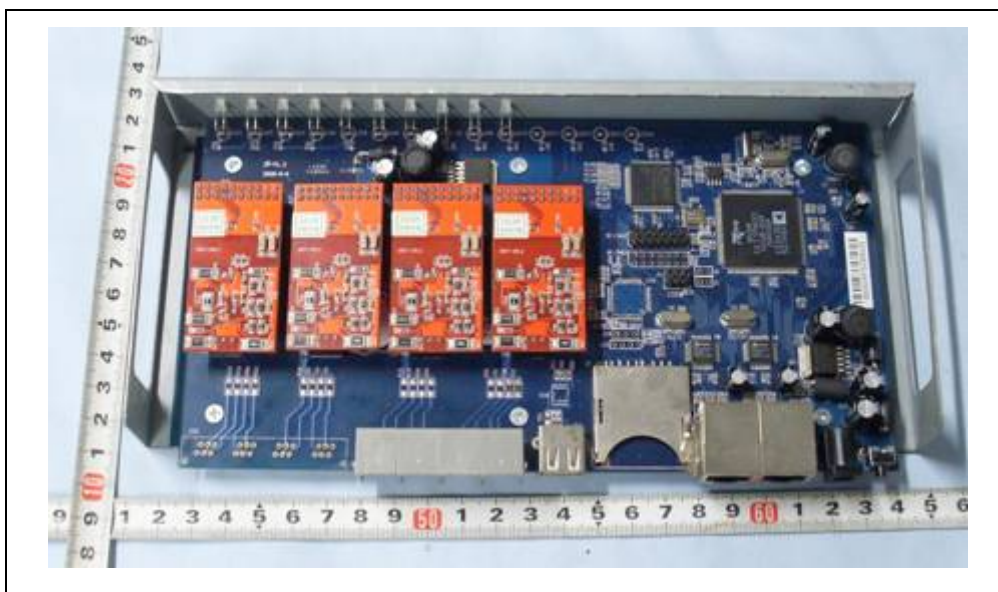
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PHOTOS OF EUT





Spectrum Research & Testing Lab., Inc.

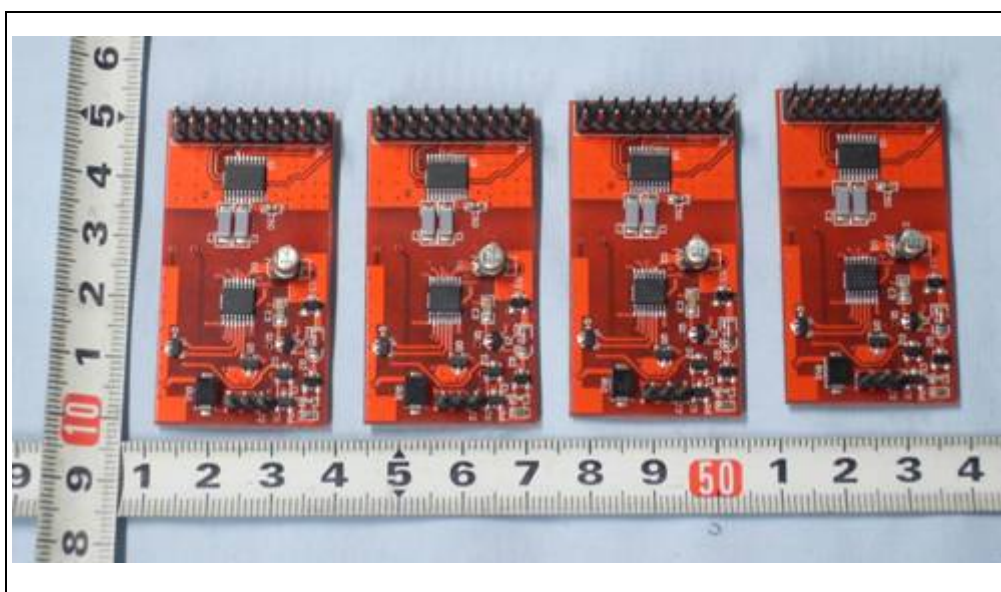
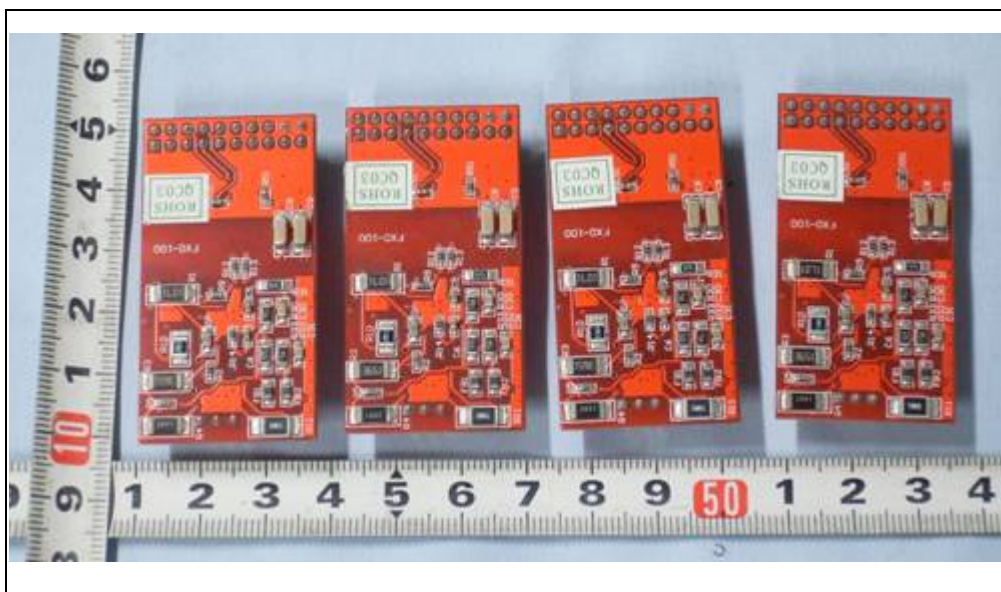
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PHOTOS OF EUT



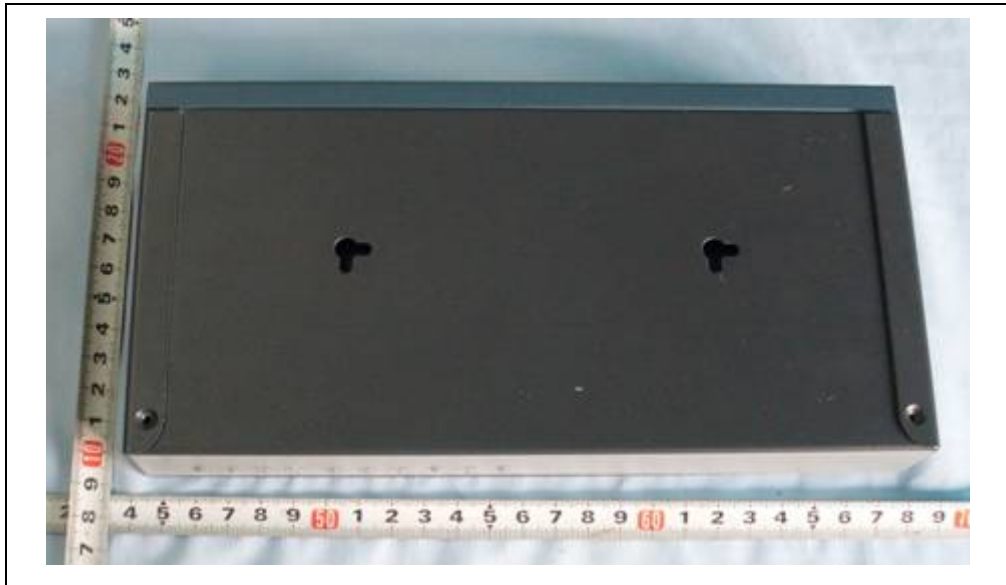


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PHOTOS OF EUT – MC440





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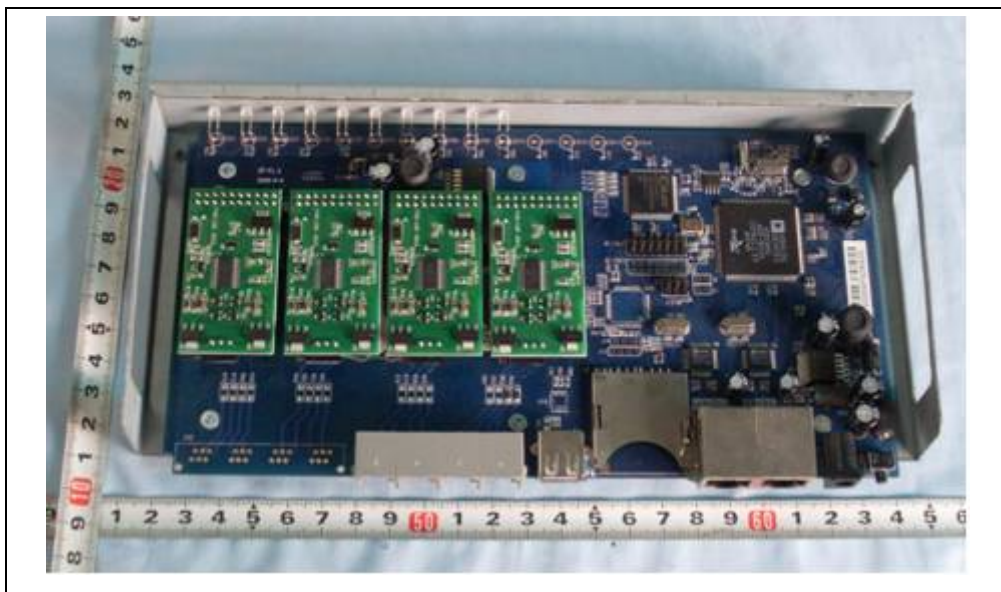
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PHOTOS OF EUT





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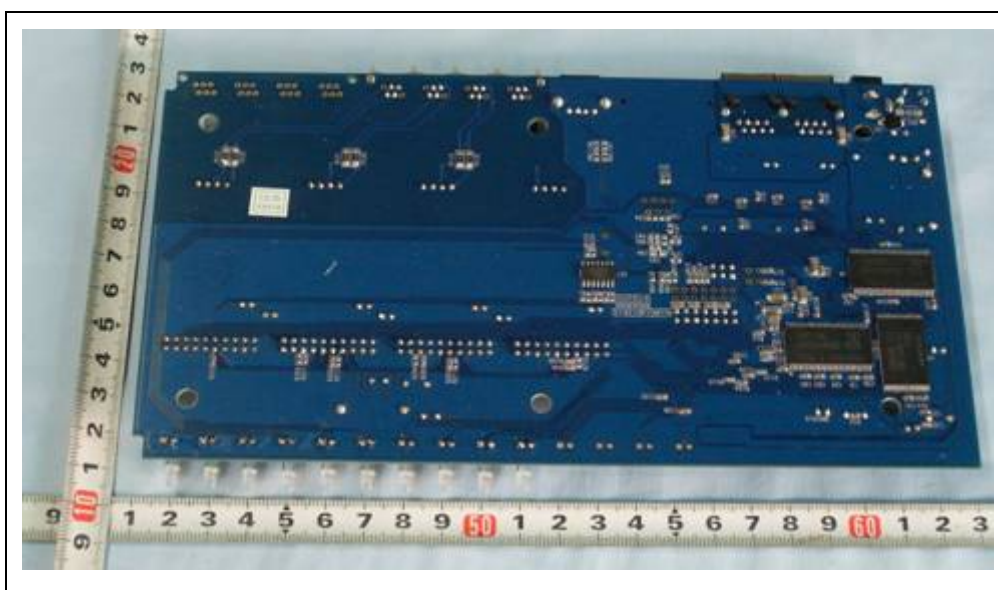
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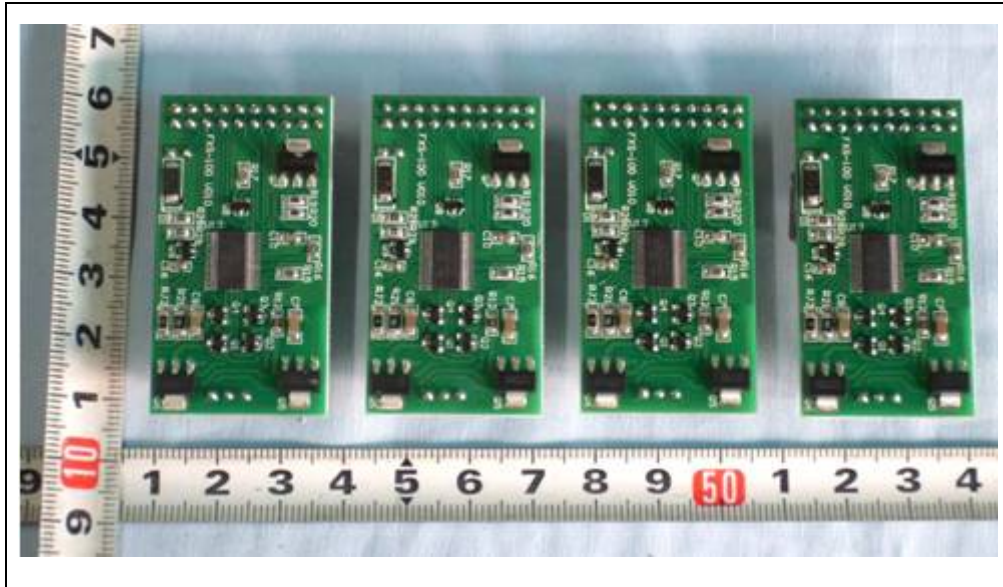




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PHOTOS OF EUT – MC808





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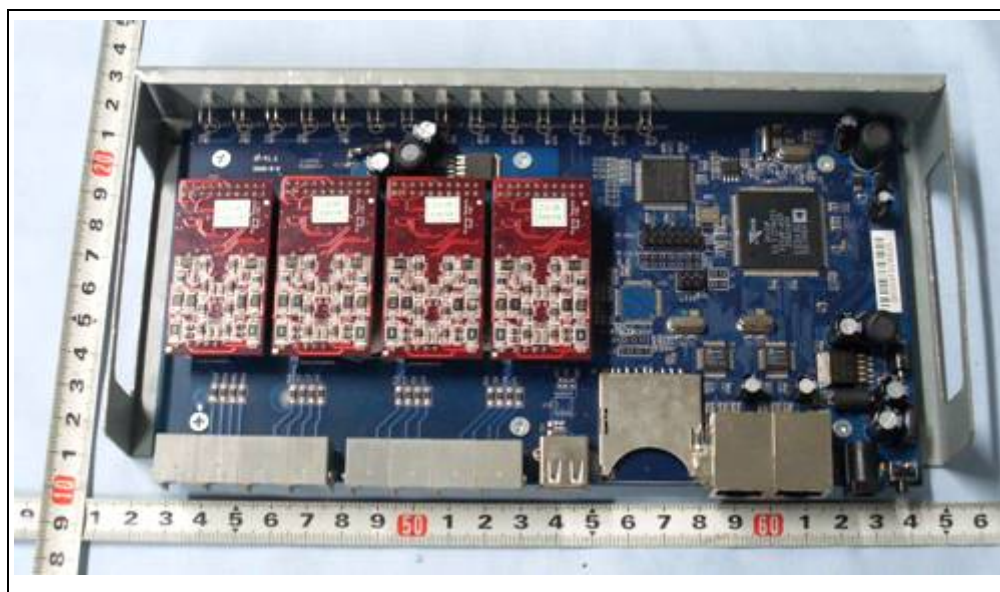
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PHOTOS OF EUT

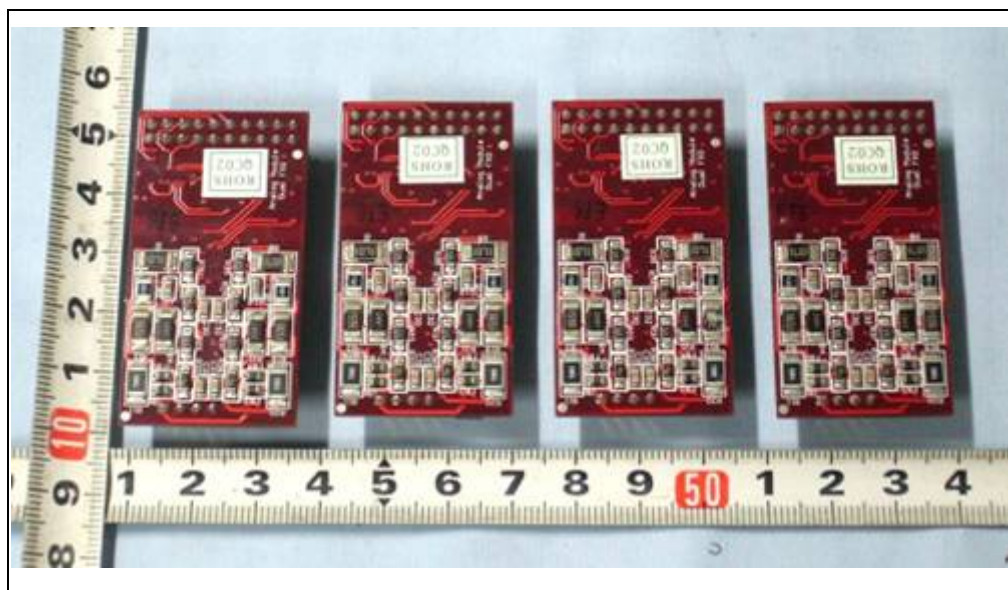
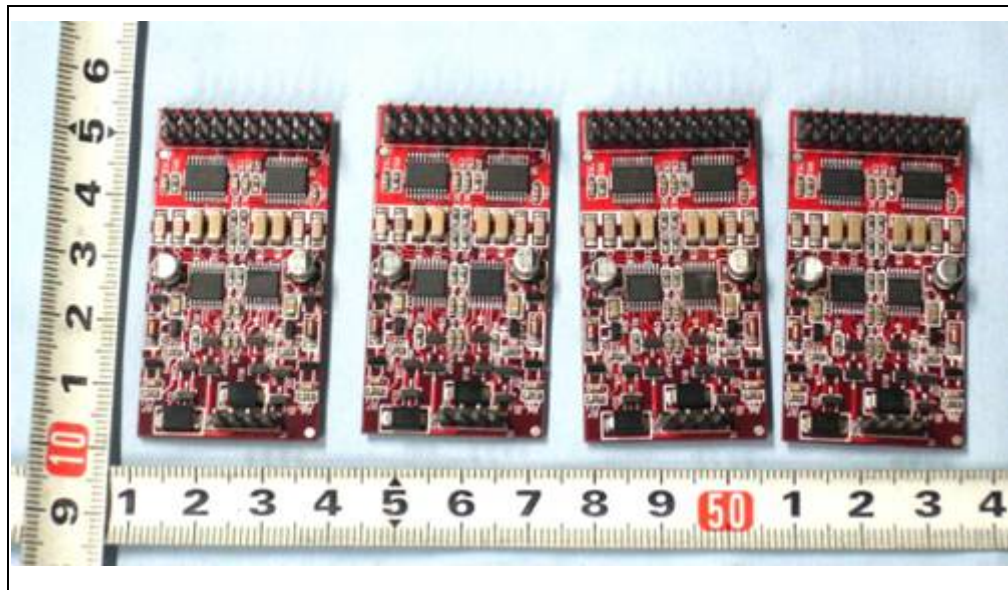




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PHOTOS OF EUT – MC880





Spectrum Research & Testing Lab., Inc.

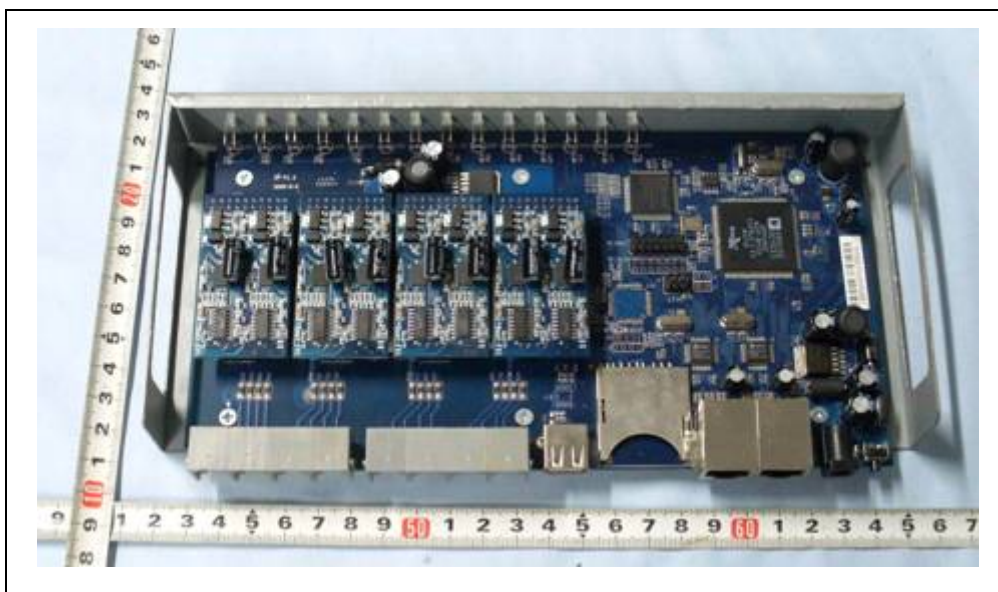
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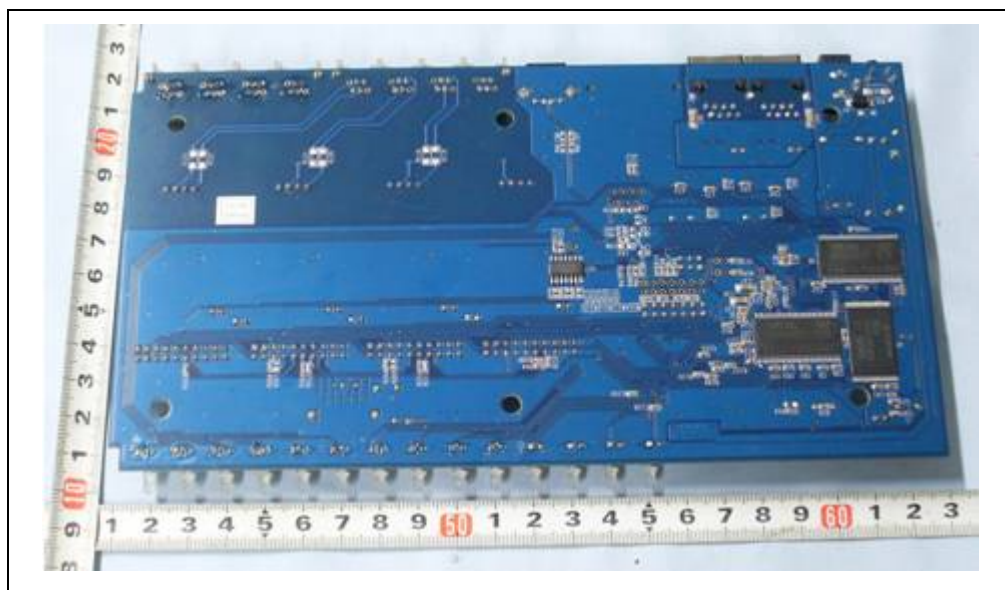




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PHOTOS OF EUT

