

QTK2001-F001

EA101778



Test Report

Product Name : Acer Bluetooth Shuttle

Model No. : Acer BT100

FCC ID.: JVPBT100

Applicant : Acer Communications & Multimedia Inc.

Address : No. 157, Shanying Rd., Gueishan, Taoyuan 333,
Taiwan, R.O.C.

Date of Receipt : May 28, 2001

Date of Test : May 28, 2001

Report No. : 016H003FI

The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Test Date : May 28, 2001

Report No. : 016H003F1



Accredited by NIST (NVLAP)

NVLAP Lab Code: 200347-0

Product Name : Acer Bluetooth Shuttle

Applicant : Acer Communications & Multimedia Inc.

Address : No. 157, Shanying Rd., Gueishan, Taoyuan 333,
Taiwan, R.O.C.

Manufacturer : Acer Communications & Multimedia Inc.

Model No. : Acer BT100

FCC ID. : JVPBT100

Rated Voltage : DC 5V (Power from PC/Notebook)

Trade Name : Acer

Measurement Standard : FCC Part 15 Subpart C Paragraph 15.247

Measurement Procedure : ANSI C63.4:1992

Classification : Class B

Test Result : Complied



NVLAP Lab Code : 200347-0

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name : Acer Bluetooth Shuttle
 Trade Name : Acer
 FCC ID. : JVPBT100
 Model No. : Acer BT100
 Frequency Range : 2400MHz to 2483.5MHz
 Channel Number : 79
 Type of Emission : Frequency Hopping
 Selection of Frequency : By software
 Antenna Type : Fixed on PCB

Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00:	2402 MHz	Channel 20:	2422 MHz	Channel 40:	2442 MHz	Channel 60:	2462 MHz
Channel 01:	2403 MHz	Channel 21:	2423 MHz	Channel 41:	2443 MHz	Channel 61:	2463 MHz
Channel 02:	2404 MHz	Channel 22:	2424 MHz	Channel 42:	2444 MHz	Channel 62:	2464 MHz
Channel 03:	2405 MHz	Channel 23:	2425 MHz	Channel 43:	2445 MHz	Channel 63:	2465 MHz
Channel 04:	2406 MHz	Channel 24:	2426 MHz	Channel 44:	2446 MHz	Channel 64:	2466 MHz
Channel 05:	2407 MHz	Channel 25:	2427 MHz	Channel 45:	2447 MHz	Channel 65:	2467 MHz
Channel 06:	2408 MHz	Channel 26:	2428 MHz	Channel 46:	2448 MHz	Channel 66:	2468 MHz
Channel 07:	2409 MHz	Channel 27:	2429 MHz	Channel 47:	2449 MHz	Channel 67:	2469 MHz
Channel 08:	2410 MHz	Channel 28:	2430 MHz	Channel 48:	2450 MHz	Channel 68:	2470 MHz
Channel 09:	2411 MHz	Channel 29:	2431 MHz	Channel 49:	2451 MHz	Channel 69:	2471 MHz
Channel 10:	2412 MHz	Channel 30:	2432 MHz	Channel 50:	2452 MHz	Channel 70:	2472 MHz
Channel 11:	2413 MHz	Channel 31:	2433 MHz	Channel 51:	2453 MHz	Channel 71:	2473 MHz
Channel 12:	2414 MHz	Channel 32:	2434 MHz	Channel 52:	2454 MHz	Channel 72:	2474 MHz
Channel 13:	2415 MHz	Channel 33:	2435 MHz	Channel 53:	2455 MHz	Channel 73:	2475 MHz
Channel 14:	2416 MHz	Channel 34:	2436 MHz	Channel 54:	2456 MHz	Channel 74:	2476 MHz
Channel 15:	2417 MHz	Channel 35:	2437 MHz	Channel 55:	2457 MHz	Channel 75:	2477 MHz
Channel 16:	2418 MHz	Channel 36:	2438 MHz	Channel 56:	2458 MHz	Channel 76:	2478 MHz
Channel 17:	2419 MHz	Channel 37:	2439 MHz	Channel 57:	2459 MHz	Channel 77:	2479 MHz
Channel 18:	2420 MHz	Channel 38:	2440 MHz	Channel 58:	2460 MHz	Channel 78:	2480 MHz
Channel 19:	2421 MHz	Channel 39:	2441 MHz	Channel 59:	2461 MHz		

Note:

1. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
2. The EUT is a 79 hopping channels bluetooth device in PC/notebook.
3. This device is a composite device in accordance with Part 15 paragraph 15.5. The function for the receiver was, measured and made a test report that the report number is 016H003F, certified under verification.
4. Quietek had verified among construction and function in typical operation, then shown in this test report.

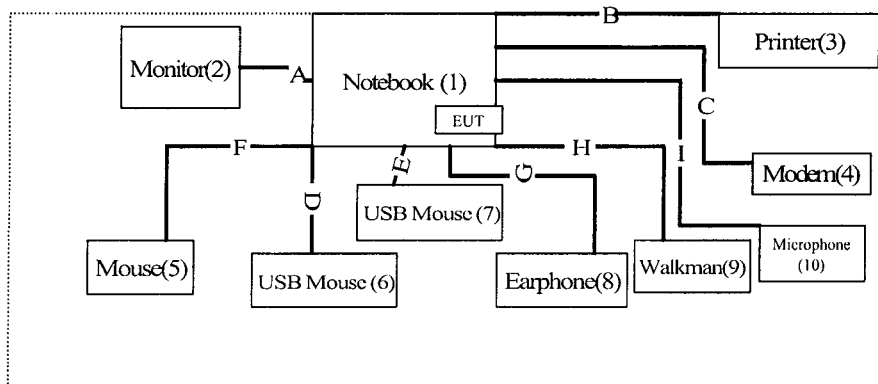
1.2. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord	FCC ID
(1)	Notebook	IBM	Think Pad 570	27L8835	Non-shielded,1.5m	DoC
(2)	Monitor	HITACHI	CM752ET-311	T8E004443	Shielded,1.8m	DoC
(3)	Printer	HP	C2642A	MY75N1D2Y1	Shielded,1.2m	B94C2642X
(4)	Modem	ACEEX	1414	980033037	Shielded,1.5m	IFAXDM1414
(5)	USB Mouse	TREMON	MUS2U	N/A	--	DoC
(6)	USB Mouse	Logitech	M-UE55	LTC93813278	--	DoC
(7)	Mouse	HP	M-S34	LZB75078428	--	DZL211029
(8)	Earphone	SONY	MDR-354	N/A	--	DoC
(9)	Walkman	AIWA	US-J202	HSA20201	--	DoC
(10)	Microphone	AIWA	CD-8000	N/A	--	DoC

	Signal Cable Type	Signal Cable Description
A.	Monitor Cable	Shielded, 1.8m
B.	Printer Cable	Shielded,1.2m
C.	Modem Cable	Shielded,1.5m
D.	USB Mouse Cable	Shielded,1.8m
E.	USB Mouse Cable	Shielded,1.8m
F.	Mouse Cable	Shielded,1.8m
G.	Earphone Cable	Non-shielded,1.2m
H.	Walkman Cable	Non-shielded,1.6m
I.	Microphone Cable	Non-shielded,1m

1.3. Configuration of Tested System



1.4. EUT Exercise Software

- 1.4.1 Setup the EUT and simulators as shown on 1.3.
- 1.4.2 Turn on the power of all equipment.
- 1.4.3 Setup the EUT as typical operation.
- 1.4.4 EUT will be in transmission status
- 1.4.5 Repeat the above procedure 1.4.3 to 1.4.4

1.5. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: November 3, 1998 File on
 Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Reference 31040/SIT1300F2
 September 30, 1998 Accreditation on NVLAP
 NVLAP Lab Code: 200347-0



Site Name: Quietek Corporation

Site Address: N0.75-1, Wang-Yeh Valley, Yung-Hsing,
 Chiung-Lin, Hsin-Chu County,
 Taiwan, R.O.C.

2. Conducted Emission

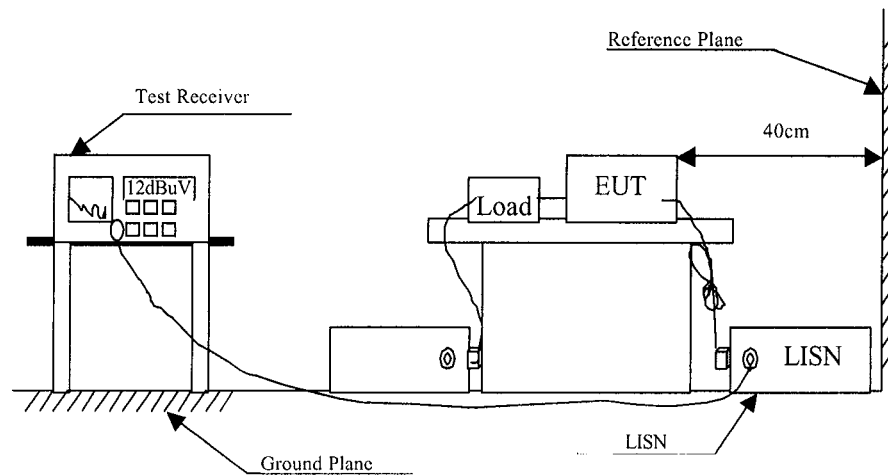
2.1. Test Equipment List

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2001	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2001	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2001	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	N/A	
5	N0.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency MHz	Limits	
	uV	dBuV
0.45 - 30	250	48.0

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4:1992 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.45MHz to 30MHz using a receiver bandwidth of 9kHz.