

FCC TEST REPORT

REPORT NO.: RF931008L02B

MODEL NO.: 8193URF

RECEIVED: Oct. 08, 2004

TESTED: Oct. 19, 2004 ~ Jan. 18, 2005

ISSUED: Jan. 20, 2005

APPLICANT: BEHAVIOR TECH COMPUTER CORP.

ADDRESS: 2F, 51, Tung Hsing Rd., Taipei, Taiwan,
R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB ADDRESS: No. 47, 14th Lin, Chiapau Tsun, Linko, Taipei,
Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen,
Kwei Shan Hsiang, Taoyuan Hsien 333,
Taiwan, R.O.C.

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1 CERTIFICATION

PRODUCT NAME : Wireless Transceiver

BRAND NAME : BTC

MODEL NO. : 8193URF

APPLICANT : BEHAVIOR TECH COMPUTER CORP.

TEST SAMPLE : PROTOTYPE

TESTED : Oct. 19, 2004 ~ Jan. 18, 2005

STANDARDS : FCC Part 15, Subpart C (15.227)
ANSI C63.4-2003

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Andrea Hsia, **DATE:** Jan. 20, 2005
(Andrea Hsia)

TECHNICAL
ACCEPTANCE : Gary Chang, **DATE:** Jan. 20, 2005
Responsible for RF (Gary Chang)

APPROVED BY : Cody Chang, **DATE:** Jan. 20, 2005
(Cody Chang / Deputy Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK
15.207	Conducted Emission Test	PASS	Meet the requirement of limit Minimum passing margin is -11.63dB at 0.228 MHz
15.227 15.209	Radiated Emission Test	PASS	Meet the requirement of limit Minimum passing margin is -7.66 dB at 360.46 MHz

2.1 MEASUREMENT UNCERTAINTY

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

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.63 dB
	200MHz ~1000MHz	3.65 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Transceiver
MODEL NO.	8193URF
POWER SUPPLY	5Vdc from host equipment
MODULATION TYPE	FSK
CARRIER FREQUENCY OF EACH CHANNEL	26.995, 27.045, 27.095, 27.145, 27.195MHz
NUMBER OF CHANNEL	5
ANTENNA TYPE	Loop antenna
DATA CABLE	1.2m non-shielded without core.
I/O PORTS	USB

NOTE:

1. The EUT was designed with transmission and receiving functions.
2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

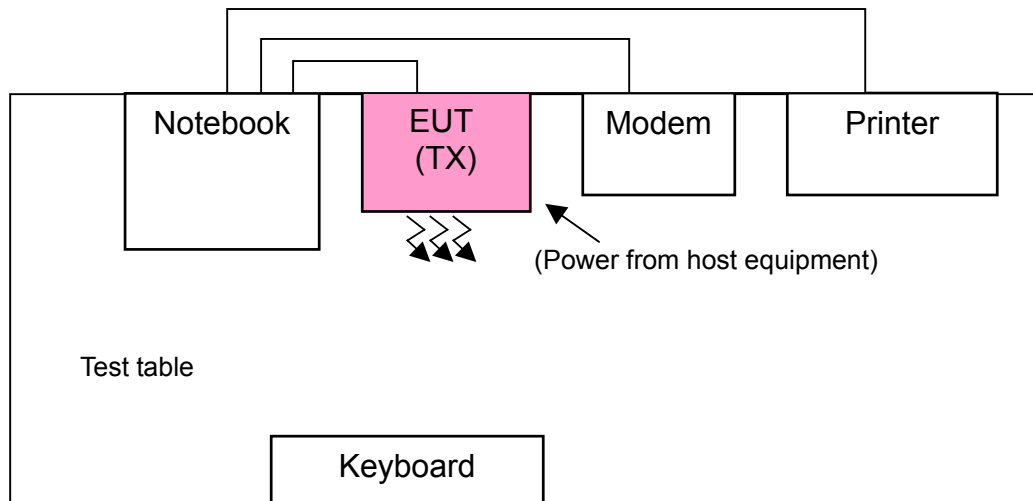
3.2 DESCRIPTION OF TEST MODES

Five channels were provided in this EUT.

CHANNEL	FREQUENCY
1	26.995 MHz
2	27.045 MHz
3	27.095 MHz
4	27.145 MHz
5	27.195 MHz

*Channel 3 was the worst case and chosen for final test.

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to		Description
	PLC	RE<1G	
1	X	X	NA

Where PLC: Power Line Conducted Emission

RE<1G RE: Radiated Emission below 1GHz

Power Line Conducted Emission Test:
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT	Available Channels	Tested Channel	Modulation Type
Receiver	1 to 5	3	FSK

Radiated Emission Test (Below 1 GHz):
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT	Available Channels	Tested Channel	Modulation Type
Receiver	1 to 5	3	FSK

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is the transmitter part of a Wireless Receiver. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.227)

ANSI C63.4-2003

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

3.4 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.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS
2	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008248	IFAXDM1414
4	WIRELESS KEYBOARD	BTC	8193URF	NA	E5XKB8193URF

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
3	1.2 m braid shielded w/o core.
4	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	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.
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.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 06, 2005
RF signal cable Woken	5D-FB	Cable-HyC02-01	Mar. 07, 2005
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Mar. 10, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Mar. 04, 2005
Software ADT	ADT_Cond_V3	NA	NA

- 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. The test was performed in HwaYa Shielded Room 2.
 3. The VCCI Site Registration No. is C-2047.

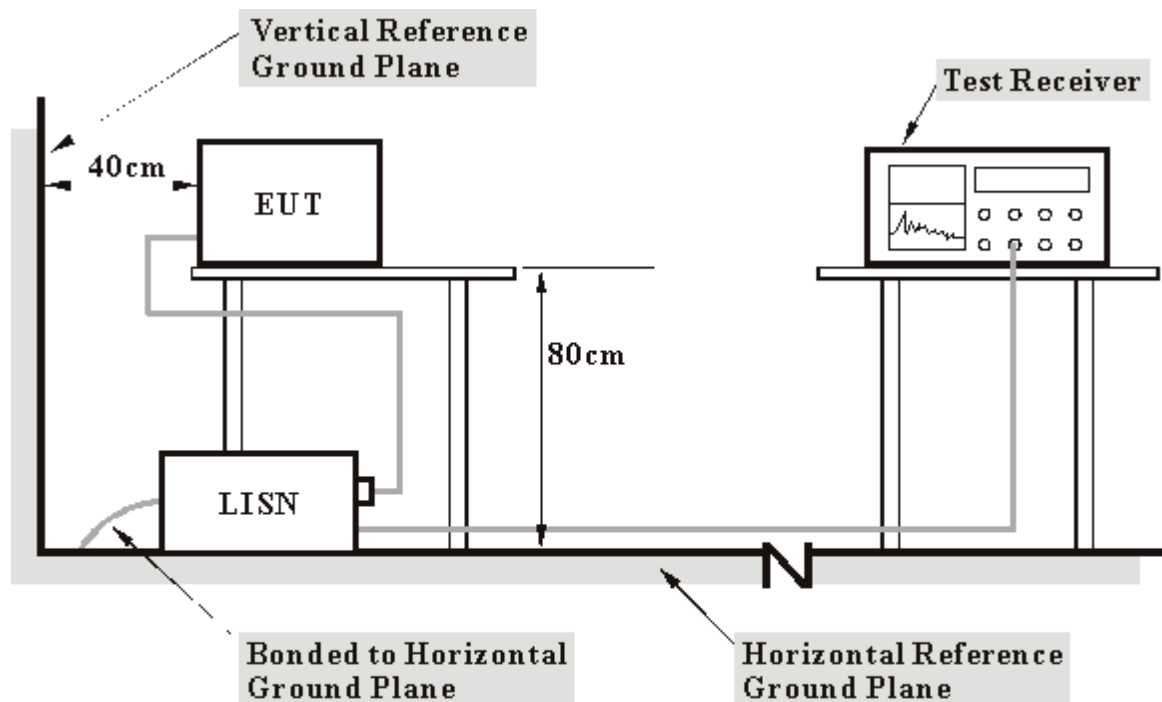
4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT (transmitter part) with a notebook system on the testing table.
- b. Checked if the transmitter part (EUT) was set at the same channel.
- c. Set the EUT for under transmitting condition at specific channel.
- d. The notebook system sent "H" messages on its monitor.
- e. The notebook system sent "H" messages to modem.
- f. The notebook system sent "H" messages to printer and the printer prints them on paper.
- g. Repeated d ~ f.

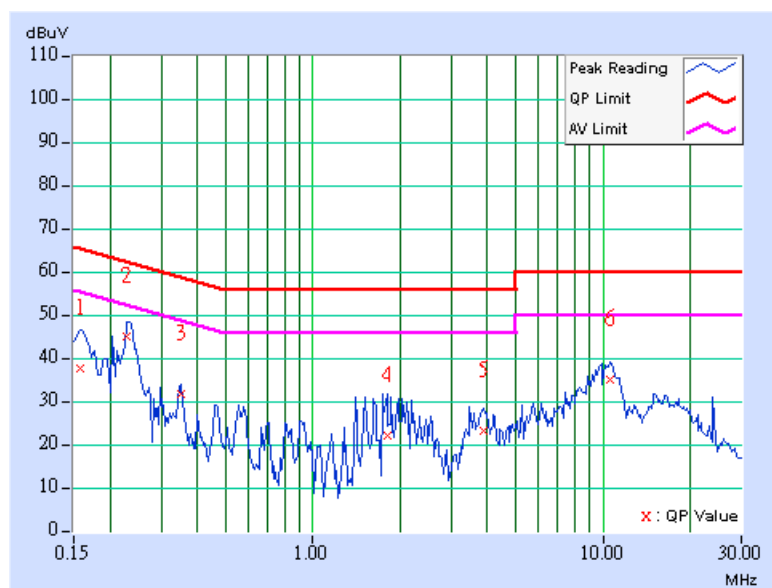
4.1.7 TEST RESULTS

Conducted Worst-Case Data

EUT	Wireless Transceiver	MODEL	8193URF
INPUT POWER (SYSTEM)	120Vac, 60 Hz	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	PHASE	Line (L)
TESTED BY	Leo Hung		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	37.33	-	37.43	-	65.58	55.58	-28.14	-
2	0.228	0.10	44.52	-	44.62	-	62.52	52.52	-17.90	-
3	0.349	0.11	31.35	-	31.46	-	58.98	48.98	-27.52	-
4	1.809	0.26	21.78	-	22.04	-	56.00	46.00	-33.96	-
5	3.855	0.31	22.67	-	22.98	-	56.00	46.00	-33.02	-
6	10.582	0.55	34.72	-	35.27	-	60.00	50.00	-24.73	-

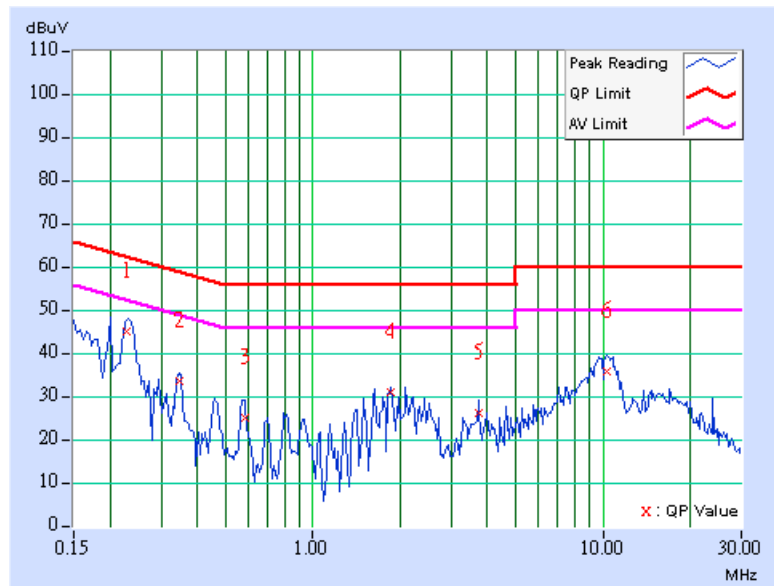
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Transceiver	MODEL	8193URF
INPUT POWER (SYSTEM)	120Vac, 60 Hz	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	PHASE	Neutral (N)
TESTED BY	Leo Hung		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.228	0.10	44.79	-	44.89	-	62.52	52.52	-17.63	-
2	0.345	0.11	33.36	-	33.47	-	59.07	49.07	-25.60	-
3	0.584	0.15	24.59	-	24.74	-	56.00	46.00	-31.26	-
4	1.848	0.25	30.46	-	30.71	-	56.00	46.00	-25.29	-
5	3.711	0.30	25.75	-	26.05	-	56.00	46.00	-29.95	-
6	10.352	0.49	35.33	-	35.82	-	60.00	50.00	-24.18	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.227 the field strength of Emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)	
	Peak	Average
26.96-27.28	100	80

Field strength limits are at the distance of 3 meters, Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any Emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Dec. 19, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2005
Loop Antenna	HFH2-Z2	100070	Nov. 14, 2005
Preamplifier Agilent	8449B	3008A01961	Nov. 09, 2005
Preamplifier Agilent	8447D	2944A10629	Nov. 09, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Mar. 04, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	NA

- 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. The test was performed in HwaYa Chamber 1.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The IC Site Registration No. is IC4924-2.

4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected Emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the Emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the Emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

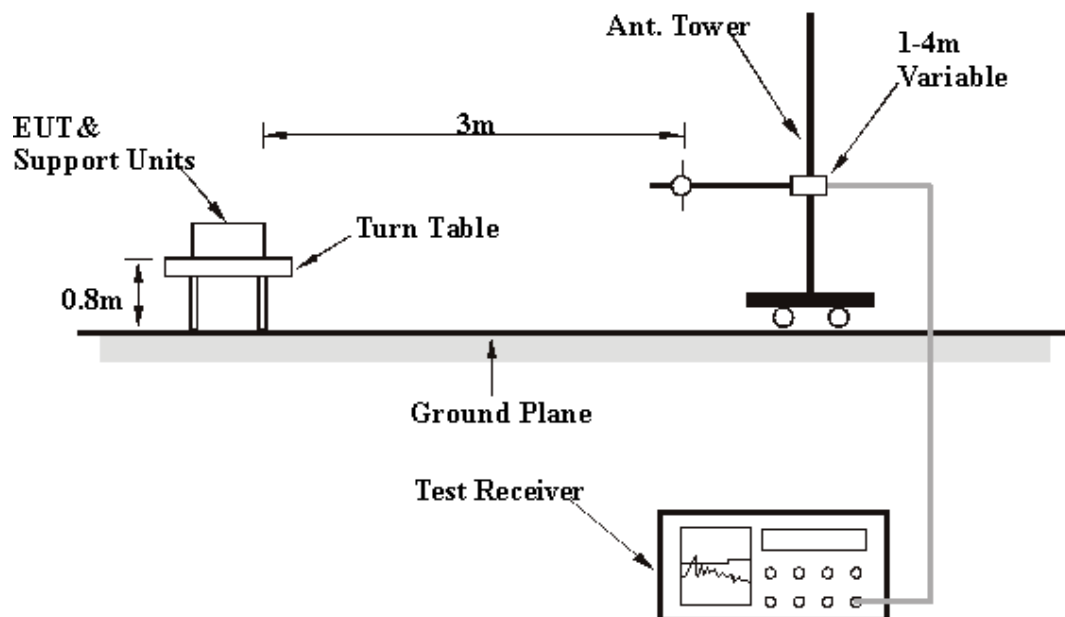
NOTE:

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITION

Same as 4.1.6

4.2.7 TEST RESULTS

Frequency 27.095MHz Worst-Case Data

EUT	Wireless Transceiver	MODEL	8193URF
INPUT POWER	5 Vdc	FREQUENCY RANGE	Below 1000 MHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 54% RH, 991 hPa	DETECTOR FUNCTION	Peak / Average
TESTED BY	Match Tsui		

TEST DISTANCE: 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*27.095	54.89 PK	100.00	-45.11	1.60	217	41.11	13.78
2	*27.095	47.41 AV	80.00	-32.59	1.60	217	33.63	13.78

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other Emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. "*" = Fundamental frequency
 6. Loop Antenna was used for all frequency below 30MHz.

EUT	Wireless Transceiver	MODEL	8193URF
INPUT POWER	5 Vdc	FREQUENCY RANGE	Below 1000 MHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 54% RH, 991 hPa	DETECTOR FUNCTION	Quasi-Peak
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.33	24.65 QP	40.00	-15.35	1.25 H	181	10.26	14.38
2	133.03	29.44 QP	43.50	-14.06	1.50 H	40	15.52	13.92
3	214.67	30.61 QP	43.50	-12.89	1.00 H	37	18.89	11.72
4	300.20	30.86 QP	46.00	-15.14	1.50 H	22	16.32	14.54
5	319.64	32.94 QP	46.00	-13.06	1.00 H	340	17.95	14.98
6	346.85	31.75 QP	46.00	-14.25	1.25 H	10	16.14	15.60
7	360.46	38.34 QP	46.00	-7.66	1.00 H	181	22.43	15.91
8	426.55	35.45 QP	46.00	-10.55	1.00 H	193	17.93	17.51
9	479.04	29.91 QP	46.00	-16.09	2.00 H	220	11.42	18.49
10	514.03	34.97 QP	46.00	-11.03	1.50 H	253	15.94	19.03
11	533.47	30.51 QP	46.00	-15.49	1.50 H	82	11.08	19.43
12	585.95	33.25 QP	46.00	-12.75	1.25 H	130	12.51	20.73
13	640.38	35.24 QP	46.00	-10.76	1.25 H	79	13.59	21.65
14	745.35	30.26 QP	46.00	-15.74	1.00 H	220	6.78	23.48
15	768.68	32.86 QP	46.00	-13.14	1.00 H	58	9.17	23.69

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	64.99	26.30 QP	40.00	-13.70	1.25 V	244	13.15	13.15
2	119.42	33.95 QP	43.50	-9.55	1.00 V	1	20.97	12.97
3	154.41	26.35 QP	43.50	-17.15	1.25 V	334	11.61	14.73
4	228.28	25.29 QP	46.00	-20.71	1.00 V	4	12.93	12.36
5	323.53	28.23 QP	46.00	-17.77	1.50 V	70	13.16	15.07
6	360.46	27.04 QP	46.00	-18.96	1.25 V	10	11.13	15.91
7	405.17	29.30 QP	46.00	-16.70	1.25 V	292	12.36	16.95
8	426.55	28.59 QP	46.00	-17.41	1.75 V	232	11.07	17.51
9	514.03	30.47 QP	46.00	-15.53	1.00 V	211	11.44	19.03
10	640.38	27.76 QP	46.00	-18.24	1.50 V	256	6.10	21.65
11	768.68	27.77 QP	46.00	-18.23	1.75 V	208	4.08	23.69
12	863.93	29.96 QP	46.00	-16.04	1.50 V	262	5.40	24.56

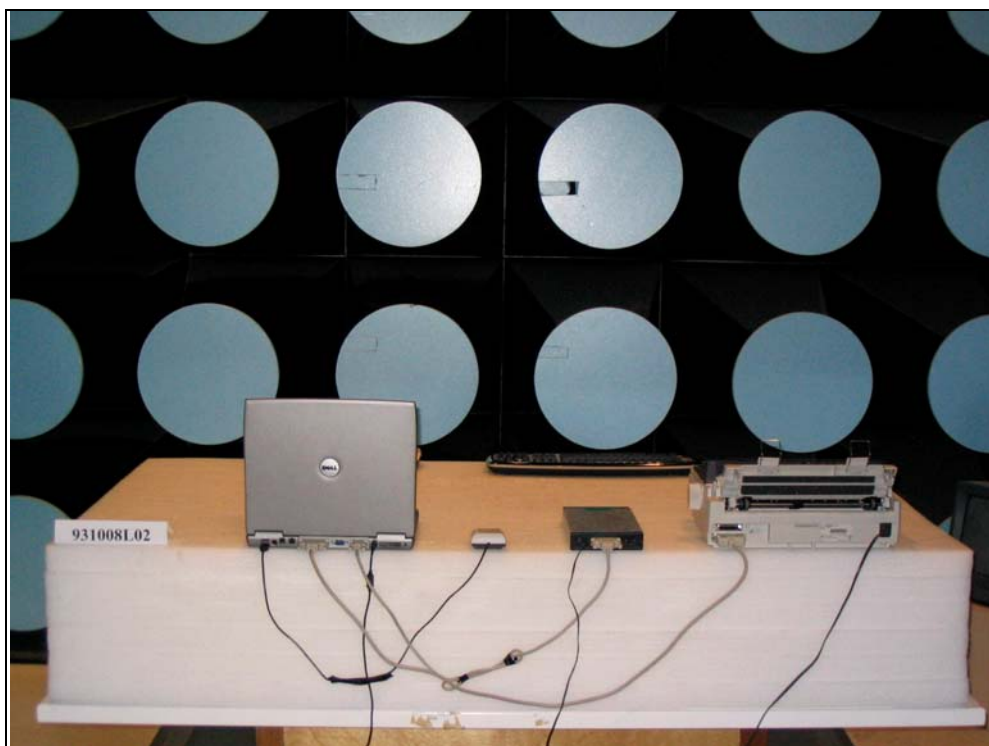
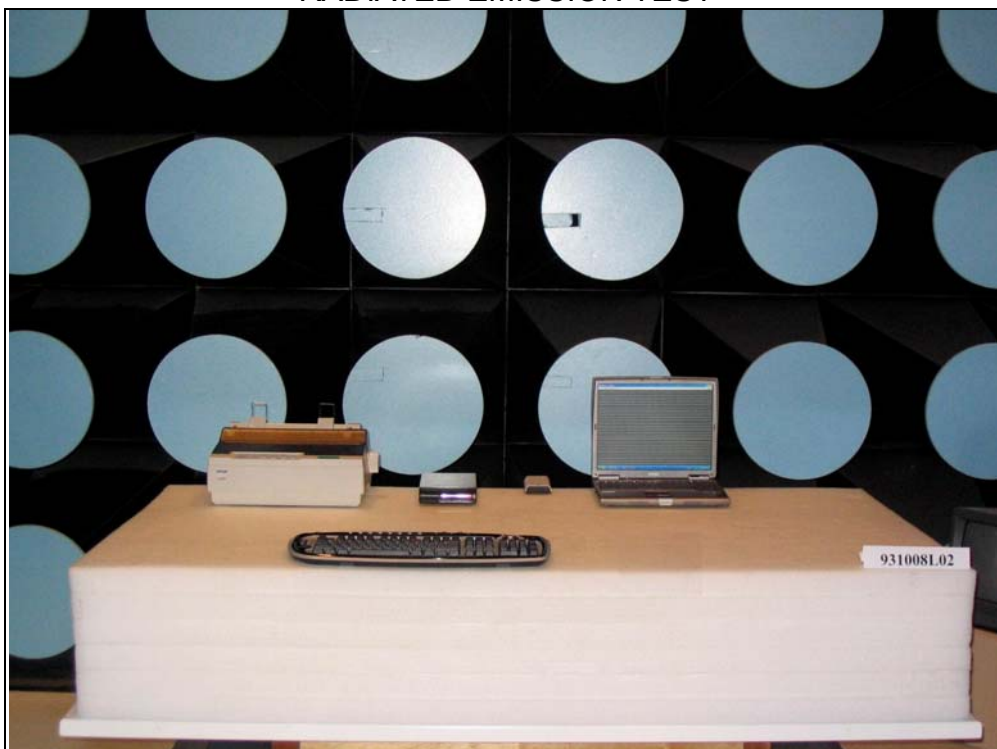
- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST



5 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025

USA	FCC, NVLAP, UL , A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
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Russia	CERTIS(MOU)

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