



Test Report

Product Name : Wireless Pointer Mouse

Model No. : AGP8400

FCC ID.: HQXAGP8400

Applicant : SYSGRATION LTD.

Address : 8F1., No. 542-7, Chung Cheng Rd., Hsin Tien,
Taipei, Taiwan, R.O.C.

Date of Receipt : Oct. 11, 2001

Date of Test : Nov. 9, 2001

Report No. : 01AH029FI

The Test Results relate only to the samples tested.

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

Test Report Certification

Test Date : Nov. 9, 2001

Report No. : 01AH029FI



Accredited by NIST (NVLAP)
NVLAP Lab Code: 200347-0

Product Name : Wireless Pointer Mouse

Applicant : SYSGRATION LTD.

Address : 8Fl., No. 542-7, Chung Cheng Rd., Hsin Tien,
Taipei, Taiwan, R.O.C.

Manufacturer : SYSGRATION LTD.

Model No. : AGP8400

FCC ID. : HQXAGP8400

Rated Voltage : Battery 4.5V

Trade Name : Agiler

Measurement Standard : FCC Part 15 Subpart C Paragraph 15.249

Measurement Procedure : ANSI C63.4:1992

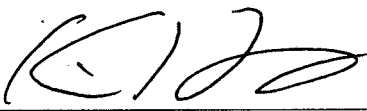
Test Result : Complied



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(Kevin Wang)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name : Wireless Pointer Mouse
Trade Name : Agiler
FCC ID. : HQXAGP8400
Model No. : AGP8400
Frequency Range : 2405 MHz to 2480MHz
Channel Number : 16
Type of Modulation : FSK
Antenna type : Printed
Operator Selection of
Operating Frequency : Manual Switch

Frequency of each Channel:

Channel	Frequency	Channel	Frequency
Channel 1:	2405 MHz	Channel 9:	2445 MHz
Channel 2:	2410 MHz	Channel 10:	2450 MHz
Channel 3:	2415 MHz	Channel 11:	2455 MHz
Channel 4:	2420 MHz	Channel 12:	2460 MHz
Channel 5:	2425 MHz	Channel 13:	2465 MHz
Channel 6:	2430 MHz	Channel 14:	2470 MHz
Channel 7:	2435 MHz	Channel 15:	2475 MHz
Channel 8:	2440 MHz	Channel 16:	2480 MHz

Note:

1. This device is a Wireless Pointer Mouse included a 2.4GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.
3. This device is a composite device in accordance with Part 15 regulations. The function for the receiver was, measured and made a test report that the report number is 01AH029F, certified under Declaration of Conformity.

1.2. Operation Description

The EUT is Wireless Pointer Mouse. The operation frequency is from 2.405GHz to 2.480GHz with FSK modulation. 16 manually selectable channels were built in the EUT. The signal will be transmitted through 2.4 GHz FSK RF signal from the printed antenna on PCB of EUT to receiver.

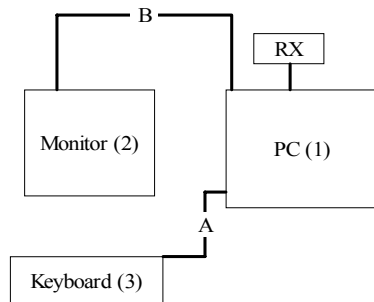
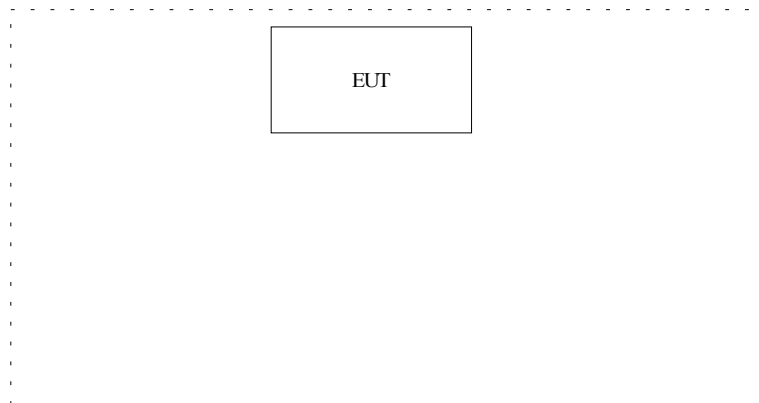
1.3. Tested System Details

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)	PC	IBM	16W	BNL6767	Non-shielded,1.8m	DoC
(2)	Monitor	HITACHI	CM752ET-311	T8E004439	Shielded,1.7m	DoC
(3)	Keyboard	IBM	KB-9930	0073449	--	DoC

	Signal Cable Type	Signal Cable Description
A.	Keyboard Cable	Shielded, 1.8m
B.	VGA Cable	Shielded, 1.8m, two ferrite core bonded

1.4. Configuration of Tested System



1.5. 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 PC reads data from disk.
- 1.4.4 Data will be transmitted through EUT.
- 1.4.5 The transmission status will be shown on the monitor.
- 1.4.6 Repeat the above procedure 1.4.4 to 1.4.5

1.6. 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: No. 75-1, Wang-Yeh Valley, Yung-Hsing,
 Chiung-Lin, Hsin-Chu County,
 Taiwan, R.O.C.

2. Conducted Emission

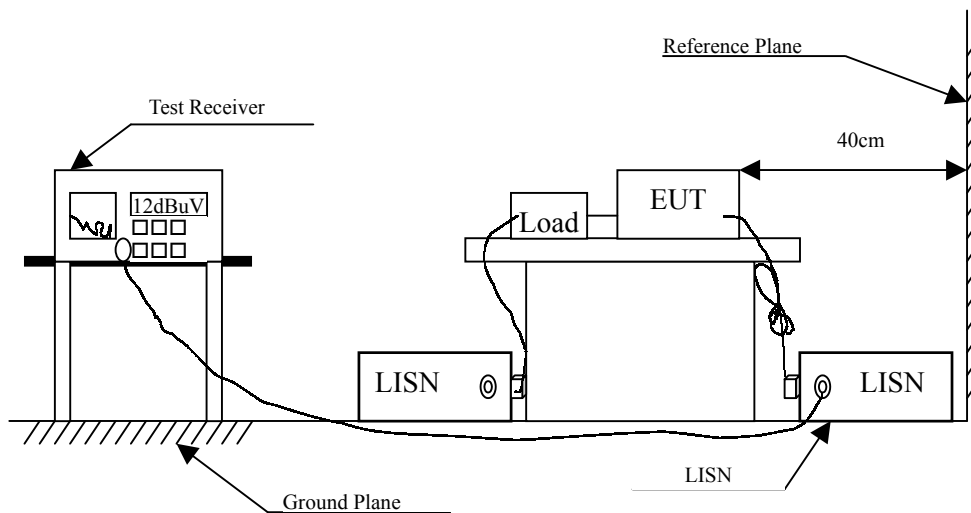
2.1. Test Equipment List

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	No. 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.

2.5. Test Result of Conducted Emission

EUT is a battery operate device, so conducted emission were omitted.

3. Radiated Emission

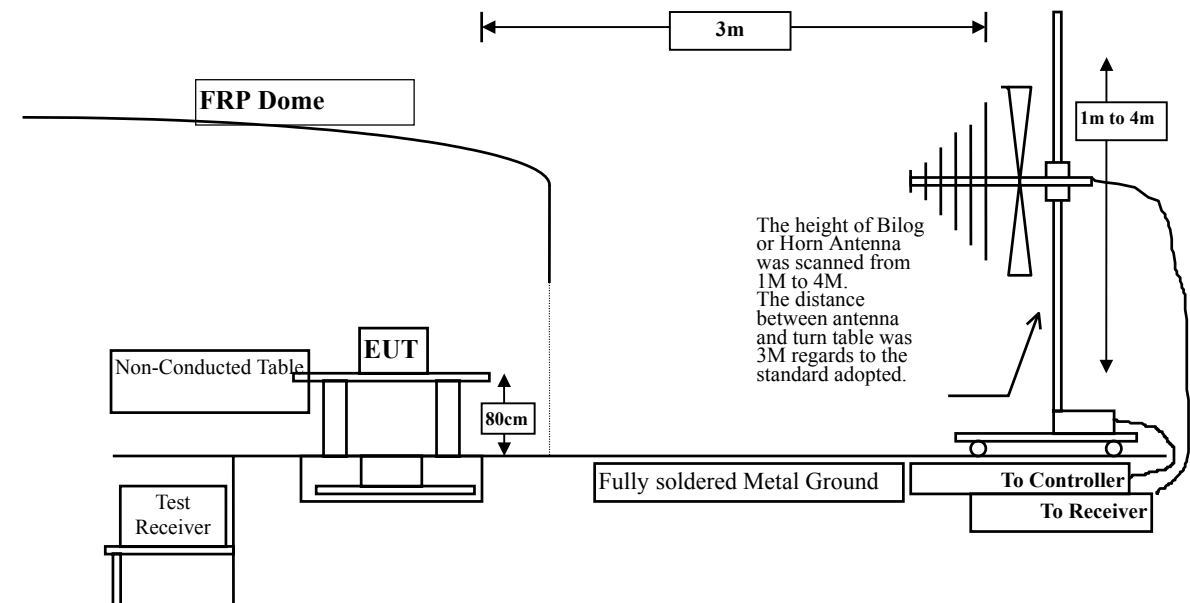
3.1. Test Equipment

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

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	X Test Receiver	R & S	ESCS 30 / 825442/14	May, 2001
	X Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2001
	X Pre-Amplifier	HP	8447D/3307A01812	May, 2001
	X Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2001
	X Horn Antenna	EM	EM6917 / 103325	May, 2001
Site # 2	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2001
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2001
	Pre-Amplifier	HP	8447D/3307A01814	May, 2001
	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2001
	Horn Antenna	EM	EM6917 / 103325	May, 2001

- Note:
1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

3.2. Test Setup



3.3. Limits

➤ Fundamental and Harmonics Emission Limits

Frequency MHz	Field Strength of Fundamental		Field Strength of Harmonics	
	(mV/m @3m)	(dBuV/m @3m)	(uV/m @3m)	(dBuV/m @3m)
2400-2483.5	50	94 (Average)	500	54 (Average)
		114 (Peak)		74 (Peak)

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

Frequency MHz	15.209 Limits (dBuV/m @3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

- Remarks :
1. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:1992 on radiated measurement.

Radiated emissions were investigated over the frequency range from 30MHz to 1GHz using a receiver bandwidth of 120kHz. Radiated was performed at an antenna to EUT distance of 3 meters.

The frequency range from 30MHz to 10th harmonics is checked.

3.5. Test Result of Radiated Emission

Product : Wireless Pointer Mouse
 Test Item : Fundamental Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Normal Operation

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m
Peak Detector (Horizontal)							
Channel 1							
2404.900	3.84	29.26	34.90	79.32	77.52	36.48	114.00
Channel 9							
2445.060	3.88	29.35	34.90	82.81	81.13	32.87	114.00
Channel 16							
2480.020	3.91	29.44	34.90	82.23	80.68	33.32	114.00
Peak Detector (Vertical)							
Channel 1							
2404.900	3.84	29.26	34.90	75.39	73.59	40.41	114.00
Channel 9							
2445.060	3.88	29.35	34.90	75.58	73.90	40.10	114.00
Channel 16							
2480.020	3.91	29.44	34.90	74.98	73.43	40.57	114.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss-PreAMP
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless Pointer Mouse
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Peak Detector (Horizontal)

4809.000	6.26	33.48	35.90	43.50	47.34	26.66	74.00
7214.000	8.31	36.22	34.90	44.14	53.77	20.23	74.00
9619.000	10.15	37.42	35.10	43.10	55.58	18.42	74.00
12024.00	11.87	39.11	34.69	44.34	60.64	13.36	74.00
14430.00	13.49	40.91	34.22	43.15	<63.33	10.67	74.00
16834.00	15.04	42.54	34.03	43.40	<66.96	7.04	74.00

Average Detector (Horizontal)

9619.000	10.15	37.42	35.10	32.47	44.95	9.05	54.00
12024.00	11.87	39.11	34.69	32.44	48.74	5.26	54.00
14430.00	13.49	40.91	34.22	32.15	<52.33	1.67	54.00
16834.00	15.04	42.54	34.03	28.47	<52.03	1.97	54.00

Peak Detector (Vertical)

4809.700	6.27	33.50	34.77	43.29	48.29	25.71	74.00
7214.000	8.31	36.22	34.90	43.18	52.81	21.19	74.00
9619.000	10.15	37.42	35.10	43.30	55.78	18.22	74.00
12025.00	11.87	39.11	34.69	44.40	60.70	13.30	74.00
14430.00	13.49	40.91	34.22	42.50	<62.68	11.32	74.00
16834.00	15.04	42.54	34.03	43.18	<66.74	7.26	74.00

Average Detector (Vertical)

9619.000	10.15	37.42	35.10	32.40	44.88	9.12	54.00
12025.00	11.87	39.11	34.69	32.30	48.60	5.40	54.00
14430.00	13.49	40.91	34.22	31.60	<51.78	2.22	54.00
16834.00	15.04	42.54	34.03	28.96	<52.52	1.48	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss-PreAMP
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless Pointer Mouse
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 9

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Peak Detector (Horizontal)

4890.000	6.34	33.58	34.74	43.13	48.30	25.70	74.00
7335.000	8.41	36.34	34.90	43.21	53.06	20.94	74.00
9781.100	10.27	37.45	35.10	43.97	56.59	17.41	74.00
12225.10	12.03	39.20	34.52	42.96	59.66	14.34	74.00
14670.00	13.65	40.41	34.47	43.40	<62.99	11.01	74.00
17115.00	15.20	43.08	33.90	44.00	<68.38	5.62	74.00

Average Detector (Horizontal)

9781.100	10.27	37.45	35.10	32.34	44.96	9.04	54.00
12225.10	12.03	39.20	34.52	32.00	48.70	5.30	54.00
14670.00	13.65	40.41	34.47	32.01	<51.60	2.40	54.00
17115.00	15.20	43.08	33.90	29.02	<53.40	0.60	54.00

Peak Detector (Vertical)

4890.000	6.34	33.58	34.74	42.86	48.03	25.97	74.00
7335.000	8.41	36.34	34.90	42.98	52.83	21.17	74.00
9780.000	10.27	37.45	35.10	42.90	55.52	18.48	74.00
12225.10	12.03	39.20	34.52	44.40	61.10	12.90	74.00
14670.00	13.65	40.41	34.47	44.50	<64.09	9.91	74.00
17115.00	15.20	43.08	33.90	43.33	<67.71	6.29	74.00

Average Detector (Vertical)

9780.000	10.27	37.45	35.10	32.80	45.42	8.58	54.00
12225.10	12.03	39.20	34.52	32.50	49.20	4.80	54.00
14670.00	13.65	40.41	34.47	32.33	<51.92	2.08	54.00
17115.00	15.20	43.08	33.90	28.65	<53.03	0.97	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss-PreAMP
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless Pointer Mouse
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 16

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Peak Detector (Horizontal)

4960.000	6.40	33.66	34.72	42.86	48.20	25.80	74.00
7440.000	8.49	36.44	34.90	42.95	52.98	21.02	74.00
9920.000	10.38	37.48	35.10	43.00	55.76	18.24	74.00
12400.00	12.14	39.26	34.37	42.55	59.58	14.42	74.00
14880.00	13.78	39.98	34.55	43.30	<62.51	11.49	74.00
17360.00	15.36	44.28	33.90	43.40	<69.14	4.86	74.00

Average Detector (Horizontal)

9920.000	10.38	37.48	35.10	31.97	44.73	9.27	54.00
12400.00	12.14	39.26	34.37	31.80	48.83	5.17	54.00
14880.00	13.78	39.98	34.55	31.97	<51.18	2.82	54.00
17360.00	15.36	44.28	33.90	27.65	<53.39	0.61	54.00

Peak Detector (Vertical)

4960.000	6.40	33.66	34.72	43.01	48.35	25.65	74.00
7440.000	8.49	36.44	34.90	43.40	53.43	20.57	74.00
9920.000	10.38	37.48	35.10	42.70	55.46	18.54	74.00
12400.60	12.14	39.26	34.37	42.07	59.10	14.90	74.00
14880.10	13.78	39.98	34.55	42.90	<62.11	11.89	74.00
17360.00	15.36	44.28	33.90	43.50	<69.24	4.76	74.00

Average Detector (Vertical)

9920.000	10.38	37.48	35.10	32.00	44.76	9.24	54.00
12400.60	12.14	39.26	34.37	31.30	48.33	5.67	54.00
14880.10	13.78	39.98	34.55	31.50	<50.71	3.29	54.00
17360.00	15.36	44.28	33.90	27.78	<53.52	0.48	54.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor + Cable loss-PreAMP
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless Pointer Mouse
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

43.920	1.28	12.66	0.00	1.80	15.74	24.26	40.00
57.580	1.41	6.17	0.00	2.81	10.39	29.61	40.00
62.860	1.47	5.69	0.00	2.36	9.52	30.48	40.00
75.140	1.59	8.26	0.00	2.10	11.95	28.05	40.00
120.380	2.02	12.81	0.00	1.40	16.22	27.28	43.50
*440.920	4.48	16.99	0.00	0.87	22.34	23.66	46.00

Vertical:

50.260	1.35	8.23	0.00	4.00	13.58	26.42	40.00
55.520	1.39	8.10	0.00	7.24	16.74	23.26	40.00
*57.500	1.41	7.54	0.00	8.18	17.13	22.87	40.00
62.180	1.46	8.11	0.00	6.94	16.51	23.49	40.00
136.000	2.17	11.86	0.00	3.07	17.10	26.40	43.50
431.940	4.44	16.68	0.00	0.98	22.11	23.89	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss

Product : Wireless Pointer Mouse
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 9

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

*40.660	1.25	14.60	0.00	1.81	17.66	22.34	40.00
49.350	1.34	9.24	0.00	2.08	12.66	27.34	40.00
57.740	1.42	6.04	0.00	2.67	10.13	29.87	40.00
70.320	1.54	7.16	0.00	2.02	10.72	29.28	40.00
197.735	2.77	9.64	0.00	2.67	15.08	28.42	43.50
226.498	3.05	10.58	0.00	2.75	16.37	29.63	46.00

Vertical:

*36.450	1.22	15.14	0.00	3.72	20.08	19.92	40.00
56.120	1.40	8.24	0.00	9.20	18.84	21.16	40.00
58.670	1.42	8.24	0.00	8.47	18.13	21.87	40.00
61.560	1.46	8.11	0.00	7.16	16.73	23.27	40.00
69.780	1.53	8.34	0.00	3.08	12.95	27.05	40.00
131.500	2.12	11.70	0.00	1.67	15.49	28.01	43.50

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss

Product : Wireless Pointer Mouse
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 16

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

*41.240	1.26	13.30	0.00	1.78	16.34	23.66	40.00
55.285	1.39	6.81	0.00	2.56	10.76	29.24	40.00
57.800	1.42	6.04	0.00	2.63	10.09	29.91	40.00
60.100	1.44	5.94	0.00	2.79	10.16	29.84	40.00
85.800	1.69	9.98	0.00	1.70	13.37	26.63	40.00
152.285	2.33	11.90	0.00	1.43	15.65	27.85	43.50

Vertical:

*35.920	1.21	15.52	0.00	3.68	20.41	19.59	40.00
57.440	1.41	7.54	0.00	8.08	17.03	22.97	40.00
59.360	1.43	7.67	0.00	8.01	17.11	22.89	40.00
62.760	1.47	7.51	0.00	6.32	15.30	24.70	40.00
70.560	1.54	8.34	0.00	3.16	13.04	26.96	40.00
143.100	2.24	11.60	0.00	1.70	15.54	27.96	43.50

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss

4. Band Edge

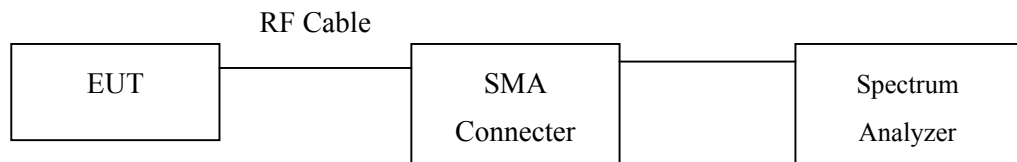
4.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2001

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

4.2. Test Setup



4.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

4.4. Standard Requirement

According to Part 15.209, above 1000 MHz, an averaging meter of wide bandwidth, equal to at least the 50 dB bandwidth of the signal to be measured, is to be used for measurement of the wanted signal and 100 kHz bandwidth for measurement of the unwanted signal.

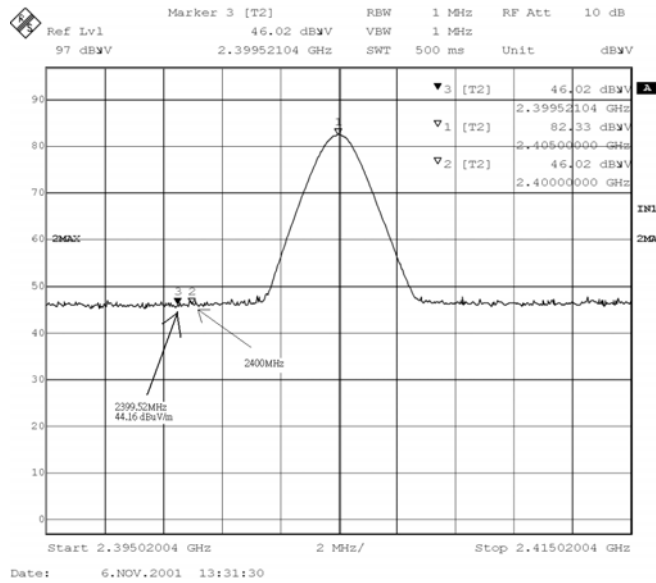
4.5. Test Result of Band Edge

Product : Wireless Pointer Mouse
 Test Item : Band Edge Data
 Test Site : No.1 OATS
 Test Mode : Channel 1

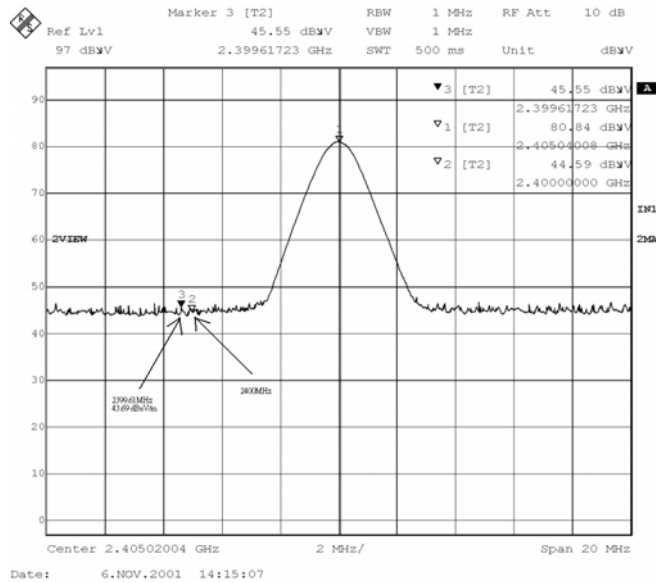
Channel No.	Frequency (MHz)	Reading (dBUV)	Measurement Level (dBUV/m)	Limit	Result
1(Horizontal)	2399.50	46.02	44.16	54	Pass
1 (Vertical)	2399.60	45.55	43.69	54	Pass

Figure Channel 1:

Channel 1: Horizontal



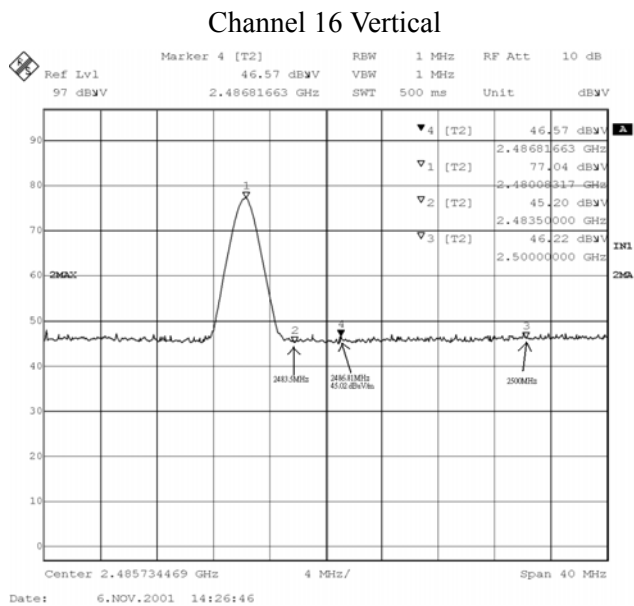
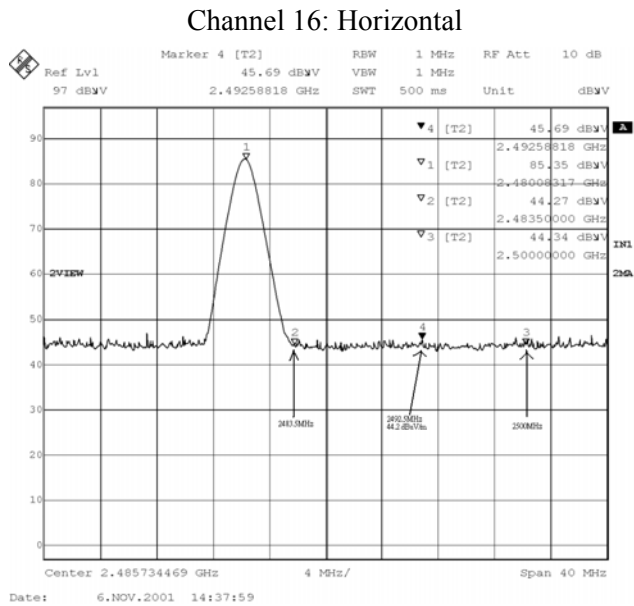
Channel 1: Vertical



Product : Wireless Pointer Mouse
 Test Item : Band Edge Data
 Test Site : No.1 OATS
 Test Mode : Channel 16

Channel No.	Frequency (MHz)	Reading (dBuV)	Measurement Level (dBuV/m)	Limit	Result
16 (Horizontal)	2492.50	45.69	44.20	54	Pass
16 (Vertical)	2486.80	46.57	45.02	54	Pass

Figure Channel 16:



5. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1 : EUT Test Photographs

Attachment 1: EUT Test Setup Photographs

Front View of Radiated Test



Back View of Radiated Test



Front View of Radiated Test-Horn

