

Measurement Report

FCC ID: FKD46AMS701U

This report concerns (check one): Class II Change

Issued Date

: Feb. 15, 2005

Project No.

: 05E0017

Equipment

: Mouse

Model No.

: MS701U

Applicant

: MONTEREY INTERNATIONAL CORP.

No. 28, Wu-Chun 6th Rd., Wu-Ku Ind, Park, Taipei

Hsine, Taiwan R.O.C.

Tested by:

Neutron Engineering Inc. EMC Laboratory

Data of Test:

Jan. 11, 2005 ~ Jan. 21, 2005

Testing Engineer:

Technical Manager:

Authorized Signatory:

NEUTRON ENGINEERING INC.

No. 132-1, Lane 329, Sec. 2, Palain Rd., Shijr City, Taipei, Taiwan

TEL: (02) 2646-5426 FAX: (02) 2646-6815









Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

Neutron's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **Neutron** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **Neutron** issued reports.

Neutron's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **Neutron-self**, extracts from the test report shall not be reproduced except in full with **Neutron**'s authorized written approval.

Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Assessment Authorities









Test Standard/Scope/Item Acceptance

FCC Part 15 Subpart B IEC/CISPR22 AS/NZS CISPR 22 CNS 13438

FCC Part 15 Subpart B
CISPR 22/EN 55022
AS/NZS CISPR 22
VCCI -Technical Requirement
CNS 13438
SS IEC/CISPR 22
IEC/EN 61000-3-2 IEC/EN

IEC/EN 61000-3-2 IEC/EN 61000-4-5 IEC/EN 61000-3-3 IEC/EN 61000-4-6 IEC/EN 61000-4-8 IEC/EN 61000-4-11 IEC/EN 61000-4-4

CISPR 22/EN 55022

IEC/EN 61000-3-2 IEC/EN 61000-4-5 IEC/EN 61000-3-3 IEC/EN 61000-4-6 IEC/EN 61000-4-8 IEC/EN 61000-4-3 IEC/EN 61000-4-11 IEC/EN 61000-4-4

VCCI -Technical Requirement

	Table of Contents	Page
1	General Information	5
	1.1 Applicant	5
	1.2 Manufacturer	5
	1.3 Equipment Under Tested	5
	1.4 OEM Brand/Model	5
	1.5 Model Difference (Series, Versions, if any)	5
	1.6 Product Description	6
	1.7 Connecting I/O Port(s)	6
	1.8 Power Supplied	6
	1.9 Products Covered	6
	1.10 Description of Test Mode(s)	6
	1.11 EUT Modifications	6
	1.12 Summary of Test Results	7
2	RFI Emissions Measurement	8
	2.1 Test Facility	8
	2.2 Standard Compliance	8
	2.3 Test Methodology	8
	2.4 Deviations from Standard Test Method	8
	2.5 Sample(s) Tested	8
	2.6 Measurement Instrument	8
	2.7 Measurement Uncertainty	9
	2.8 Tested System Set-Up/Configuration Details	9
	Table -1 Equipments Used in Tested System	10
	Diagram -1 Block diagram showing the configuration of system tested	11
	Table - 2 Equipments Used in Tested System	12
	Table - 3 Information of Interface Cable	12
	2.9 EUT Operating Conditions	13
3	Justification	14
	3.1 Limitations	14
	3.1.1 Power Line Conducted Emission	14
	3.1.2 Radiated Emission Limits	14
	3.2 Measurement Justification	15
	3.2.1 Conducted Emission	15
	3.2.2 Radiated Emission	15
	3.3 Measurement Data	15
	Table 4 Conducted Emission Data	16
	Table 5 Radiated Emission Data	18

AIT!	JTRO.	8 <i>1 -</i>	<i>1</i> ~ 1	Λ
NE	,,,,,,	N	""	4 A

		Table of Contents	Page
At	tachment		20
A.	EUT Test Photos		21
B.	Product Labeling		26

NICI	ITRON		IAD
NEL	IIKUN	v <i>– IVI</i>	 IAR

1. General Information

1.1 Applicant

Name MONTEREY INTERNATIONAL CORP.

Address No. 28, Wu-Chun 6th Rd., Wu-Ku Ind, Park, Taipei Hsine, Taiwan R.O.C.

1.2 Manufacturer

Name N/A Address N/A

1.3 Equipment Under Tested

Name: Mouse

Trade Name: MONTEREY Model No.: MS701U

1.4 OEM Brand/Model (if applicable)

OEM Brand(s)/Model(s) except the basic model in sub-clause 1.3 is(are) the follows:

OEM Brand: No Brand; A-OPENApplied; ASCO; ASUS; BIGLOBE TW; BADTZ-MARU; DELTA;

Doaremon; ECS; FIC; Genius; GENUINE; GENIUS; SOWIN; K. T Hello Kitty; LEMEL; LEO; P. N Pom PomPurin; Sunlink; Sysgration; SYNNEX; Tare panda;

Tommet; TATUNG; TWINHEA; U-Stylish; X.OBAO

Model No.: N/A

1.5 Model Difference (Series, Versions, if any)

N/A

NEUTRON EMC LAB.

Report No.: NEI-FCCE-1-05E0017

1.6 Product Descriptions(Application/Features/Specification)

The EUT is a Mouse.

Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual

1.7 Connecting I/O Port(s)

Please refer to the User's Manual

1.8 Power Supplied

Power Source: Supplied from PC PS/2 or USB port.

Power Cord: Permanently connected, non-shielded type.

Power Rating: DC I/P 5V, 70mA MAX

1.9 Products Covered (if applicable)

The sample tested including the following sub-system/module/accessory:

Sub-system/ Module/ Accessory Model/Type No. Int. Inst./ Ext. Cont.

N/A N/A N/A

1.10 Description of Test Mode(s)

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Mode 1 : PS/2 Port Mode 2 : USB Port

All the above modes were tested, and these modes were used for final testing and collecting the test data included in this report.

1.11 EUT Modifications (if applicable)

No any modification required for the EUT to comply with the standards.

	ITRO		$II \cap I$	
NH	IIKU	N F1	VIC - I	ıΔR

1.12 Summary of Test Results

Test procedures according to the technical standards:

Too proceed and the testimostic contraction of the testimost contraction of the testimostic contraction of the testimostic c							
EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15, Subpart B	Conducted Emission	Class B	PASS				
CISPR 22:1997+A1:2000	Radiated Emission	Class B	PASS	Remark			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

	ITDOI	N FMC	$I \land D$
NIFI	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	V F/V/(1 AR

2. RFI Emissions Measurement

2.1Test Facility

The test facilities used to collect the test data in this report is C01/OS02 at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan.

2.2 Standard Compliance

The test data contained in this report relate only to the item(s) listed below:

Limitation Class B

FCC Part15, Subpart B/CISPR 22:1997+A1:2000.

2.3 Test Methodology

Both conducted and radiated testing were performed during the max. EMI emission evaluation.

Antenna to EUT distance is 10 m.

Test procedures according to the technical standards:

FCC Part15, Subpart B / ANSI C63.4: 2003.

2.4 Deviations from Standard Test Method

N/A

2.5 Sample(s) Tested

The representative sample tested in this reports is(are): MS701U

Test results in this test report relate only to the sample(s) tested.

The EUT has been tested according to the following environmental condition:

Input Power	120Vac/60Hz
Environmental Conditions	Please refer to the measurement data.

2.6 Measurement Instruments

Valid measurement instruments used in this report refer to Table-1 enclosed.

	ICI	JTRO		IAD
ľ	v = c	IIRU	N = IV	LAB.

2.7 Measurement Uncertainty

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately $\mathbf{95}$ % $^{\circ}$

A. Conducted Measurement :5.05dB

B. Radiated Measurement:

					,
Test Site Method		Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	Н	4.59	
		30MHz ~ 200MHz	V	4.80	
		200MHz ~ 1,000MHz	Н	4.47	
		200MHz ~ 1,000MHz	V	5.03	
OS-01	VCCI	30MHz ~ 200MHz	Н	4.59	Only for VCCI Report
		30MHz ~ 200MHz	V	4.48	Only for VCCI Report
		200MHz ~ 1,000MHz	Н	4.47	Only for VCCI Report
		200MHz ~ 1,000MHz	V	4.73	Only for VCCI Report
OS-02	ANSI	30MHz ~ 200MHz	Н	4.34	
		30MHz ~ 200MHz	V	5.15	
		200MHz ~ 1,000MHz	Н	5.28	
		200MHz ~ 1,000MHz	V	4.53	
OS-02	VCCI	30MHz ~ 200MHz	Н	4.34	Only for VCCI Report
		30MHz ~ 200MHz	V	4.77	Only for VCCI Report
		200MHz ~ 1,000MHz	Н	4.91	Only for VCCI Report
		200MHz ~ 1,000MHz	V	4.53	Only for VCCI Report

2.8 Tested System Set-Up/Configuration Details

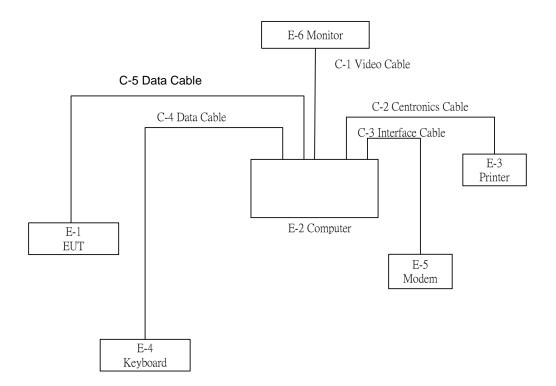
The system was configured for testing in a typical fashion (as a user would normally use) or in-accordance with the operating configuration specified in the user's manual. A Block Diagram(please refer to the Diagram - 1) and Photos(please refer to the attachment - **B**) showing the set-up/configuration of system tested. In addition, **Table-2** and **Table-3** provide a detail of all equipment items and cables information used in the system tested.

Table -1 Measurement Instruments List

Item	Instruments	Mfr/Brand	Model/Type No	. Serial No.	Calibrated Date	Next Cali. Date	Note
1	LISN	EMCO	3825/2	9605-2539	2004-10-01	2005-09-30	✓
2	LISN	Rolf Heine	NNB-2/16Z	98083	2004-08-03	2005-08-02	
3	LISN	Rolf Heine	NNB-2/16Z	98053	2004-12-14	2005-12-13	
4	4L-V-LISN	Rolf Heine	NNB-4/63TL	02/10040	2004-04-07	2005-04-06	✓
5	LISN	EMCO	4825/2	00028234	2004-10-08	2005-10-07	
6	Pulse Limiter	Electro-Metrics	EM-7600	112644	2004-12-07	2005-12-06	✓
7	50 Ω Terminator	N/A	N/A	N/A	2004-05-08	2005-05-07	✓
8	Test Cable	N/A	C01	N/A	2004-12-08	2005-12-07	✓
9	Log-Bicon Antenna	MESS-ELEKTRONIK	VULB 9160	3058	2004-10-20	2005-10-19	
10	Log-Bicon Antenna	MESS-ELEKTRONIK	VULB 9160	3115	2004-04-14	2005-04-13	✓
11	Log-Bicon Antenna	MESS-ELEKTRONIK	VULB 9161	4022	2004-07-15	2005-07-14	
12	Test Cable	N/A	10M_OS01	N/A	2004-12-08	2005-12-07	
13	Test Cable	N/A	OS01-1/-2	N/A	2004-12-08	2005-12-07	
14	Test Cable	N/A	10M_OS02	N/A	2004-12-08	2005-12-07	✓
15	Test Cable	N/A	OS02-1/-2/-3	N/A	2004-12-08	2005-12-07	✓
16	RF Switch	Anritsu	MP59B	M65982	2004-12-07	2005-12-06	
17	Quasi-Peak Adapter	HP	85650A	2521A00844	2004-03-16	2005-03-15	✓
18	RF Pre-Selector	HP	85685A	2648A00417	2004-03-16	2005-03-15	✓
19	Spectrum Analyzer	HP	85680B	2634A03025	2005-01-07	2006-01-06	✓
20	Spectrum Monitor	HP	85662B	2648A13616	2005-01-07	2006-01-06	✓
21	Pre-Amplifier	Anritsu	MH648A	M09961	2004-11-24	2005-11-23	✓
22	Spectrum Analyzer	ADVAN TEST	R3261C	81720298	2004-09-01	2005-08-31	
23	Test Receiver	R&S	ESH3	860156/018	2004-12-31	2005-12-30	✓
24	Test Receiver	R&S	ESVP	860687/009	2004-12-31	2005-12-30	✓
25	Test Receiver	PMM	PMM 9000	4310J01002	2004-12-06	2005-12-05	
26	Horn Antenna	EMCO	3115	9605-4803	2004-05-28	2005-05-27	
27	Test Receiver	R&S	ESMI	843977/005	2004-05-18	2005-05-17	
28	Absorbing Clamp	R&S	MDS-21	841077/011	2004-09-09	2005-09-08	
29	Voltage Probe	R&S	ESH2-Z3	841.800/023	2004-09-07	2005-09-06	
30	Signal Generator	HP	8648A	3426A01034	2004-05-17	2006-05-16	
31	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A	N/A	✓
32	Turn Table	Chance Most	CMTB-1.5	N/A	N/A	N/A	✓

^{(1)&}quot; ✓" indicates the instrument used in Test Report.
(2)" N/A" denotes No Model No. / Serial No. and No Calibration specified.

Diagram - 1
Block diagram showing the configuration of system tested



	ITRC			~ .	4 0
NILI	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1NI I	— 11/1/		$^{\prime\prime}$

Table - 2 Equipments Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Mouse	MONTEREY	MS701U	FKD46AMS701U		EUT
E-2	PC	HP	Pavilion 8801	DOC	SG12460765	
E-3	Printer	SII	DPU-414	DOC	1045105A	
E-4	PS/2 K/B	HP	5181	DOC	N/A	
E-5	Modem	ACEEX	DM-1414V	DOC	8041708	
E-6	Monitor	HITACHI	CM753ET	DOC	T8L000003	

Note:

- (1) Unless otherwise denoted as EUT in 『Remark』 column , device(s) used in tested system is a support equipment.
- (2) Unless otherwise marked as % in <code>"Remark_"</code> column, Neutron consigns the support equipment to the tested system.
- (3) The support equipment was authorized by Declaration of Confirmation.

Table - 3 Information of Interface Cable

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	YES	1.8M	
C-2	YES	NO	1.8M	
C-3	YES	NO	1.5M	
C-4	YES	NO	1.5M	
C-5	YES	NO	1M	*

Note:

- (1) Unless otherwise marked as % in <code>"Remark_"</code> column, Neutron consigns the support equipment to the tested system.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.

NEUTRON EMC LAB.	
	Report No.: NEI- FCCE-1-05E0017

2.9 EUT Operating Conditions

- (a) Both conducted and radiated testing were performed during the max. EMI emission evaluation.
- (b) The system was configured for testing in a typical fashion (as a customer would normally use it). The EUT was connected to support equipment-personal computer. Peripherals of PC, such as monitor, keyboard, modem, and printer were contained in this system in order to comply with the CISPR22 Rules requirement. The PC operated in the default 800 x 600 VGA Graphic mode. This operating condition was tested and used to collect the included data.
- (c) The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The program contained on a PC hard disk and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:
 - 1. Read (write) from (to) mass storage device (Disk).
 - 2. Send "H" pattern to video port device (Monitor).
 - 3. Send "H" pattern to parallel port device (Printer).
 - 4. Send "H" pattern to serial port device (Modem).
 - 5. EUT sent messages to PC.
 - 6. Repeated from 2 to 5 continuously.

As the keyboard is strictly input device, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.

3. Justification

3.1 Limitations

3.1.1 Power Line Conducted Emission (Frequency Range 150KHz-30MHz)

Measurement	Mains	Terminal	Mains Te	erminals	Note
Frequency	Class A	\ Limits	Class E	B Limits	CISPR
Range	(dB	uV)	(dB	uV)	FCC
(MHz)	QP Mode	AV Mode	QP Mode	AV Mode	Std.
0.15 - 0.50	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 - 5.00	73.00	60.00	56.00	46.00	CISPR
5.00 - 30.0	73.00	60.00	60.00	50.00	CISPR
0.15 - 0.50	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 - 5.00	73.00	60.00	56.00	46.00	FCC
5.00 - 30.0	73.00	60.00	60.00	50.00	FCC

Notes:

- (1). The tighter limit applies at the band edges.
- (2). The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.1.2 Radiated Emission Limits (Frequency Range 30MHz-1000MHz)

Measurement	Quasi-Pe	ak Mode	Quasi-Pe	Quasi-Peak Mode		
Frequency	Class A	A Limits	Class E	3 Limits	CISPR	
Range	(dBu	V/m)	(dBu	V/m)	FCC	
(MHz)	10m	30m	10m	3m	Std.	
30.00 -230.00	40.00	30.00	30.00	40.00	CISPR	
230.0 -1000.0	47.00	37.00	37.00	47.00	CISPR	
30.00 - 88.00	39.00	N/A	30.00	40.00	FCC	
88.00 - 216.0	43.50	N/A	33.50	43.50	FCC	
216.0 -960.0	46.00	N/A	36.00	46.00	FCC	
above 960.0	49.50	N/A	46.00	54.00	FCC	

Notes:

- (1). The tighter limit applies at the band edges.
- (2). Emission level (dBuV/m)=20log Emission level (uV/m).
- (3). A measuring distance 0f 10m is a primary used. However, either 3m or 10m (instead of 10m) distance my be allowed. If the distance is 3m, add 10dB to the QP-limit above. If the distance is 10m, subtract 10dB from the QP-limit above.

NICI	JTRO	M E	M	IAD
NE	IIRU		IVIL .	

3.2 Measurement Justification

3.2.1 Conducted Emission

The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and these signals are then Quasi Peak detector mode and Average detector mode re-measured.

Data of **Table - 4**. lists the significant emission frequencies, measured levels, limits and safe margins. All readings are Peak Mode measured unless otherwise stated as QP or AV in column of "Remark".

If the Peak Mode measured value lower than both QP Mode and AV Mode Limit, EUT shall be deemed to compliance with both QP & AV Limits and then no additional QP Mode or AV Mode measurement performed.

If additional QP or AV Mode measurement needed, and if the QP Mode measured value compliance with the QP Mode Limit and lower than AV Mode Limit, the EUT shall be deemed to meet both QP & AV Limits and then only QP Mode was measured, but AV Mode was not performed $^{\circ}$

3.2.2 Radiated Emission

The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

Data of **Table - 5**. lists the significant emission frequencies, measured levels, limits and safe margins. All readings are Peak Mode measured unless otherwise stated as QP in column of "Remark".

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

3.3 Measurement Data

Table - 4. Conducted Emission Data

Table - 5. Radiated Emission Data

	ITDA	N FM	^	
NH	IIKUI	V 1-1VI		IAR

Table 4 Conducted Emission Data

EUT: Mouse Model/Type No.: MS701U

Temperature: 22 °C Relative Humidity: 69 % Pressure: 1024.4 hPa

Special Notes: (EUT Operation Mode or Test Configuration Mode, if applicable)

Mode 1

Minimum passing margin is -15.04dB at 0.19MHz

Freq.	Terminal	Measure	ed(dBuV)	Limits	s(dBuV)	Safe I	Margins
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
0.19	Line	46.60	*	64.04	54.04	-17.44	(QP)
0.38	Line	39.61	*	58.39	48.39	-18.78	(QP)
0.47	Line	38.41	*	56.59	46.59	-18.18	(QP)
0.75	Line	34.21	*	56.00	46.00	-21.79	(QP)
1.37	Line	28.95	*	56.00	46.00	-27.05	(QP)
2.62	Line	30.79	*	56.00	46.00	-25.21	(QP)
0.19	Neutral	49.00	*	64.04	54.04	-15.04	(QP)
0.28	Neutral	39.61	*	60.76	50.76	-21.15	(QP)
0.37	Neutral	38.81	*	58.48	48.48	-19.67	(QP)
0.75	Neutral	35.21	*	56.00	46.00	-20.79	(QP)
1.66	Neutral	32.90	*	56.00	46.00	-23.10	(QP)
2.62	Neutral	32.79	*	56.00	46.00	-23.21	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ∘ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz ∘
- (2) All readings are QP Mode value unless otherwise stated AVG in column of $^{\mathbb{F}}$ Note $_{\mathbb{J}}$. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform $_{^{\circ}}$ In this case, a " * " marked in AVG Mode column of Interference Voltage Measured $_{^{\circ}}$
- (3) Measuring frequency range from 150KHz to 30MHz o

	ITRO		^	
NE	IIRUI	V – IVI		I AR

Table 4 Conducted Emission Data

EUT: Mouse Model/Type No.: MS701U

Temperature: 22 °C Relative Humidity: 69 % Pressure: 1024.4 hPa

Special Notes: (EUT Operation Mode or Test Configuration Mode, if applicable)

Mode 2

Minimum passing margin is -14.51dB at 0.37MHz

Freq.	Terminal	Measure	ed(dBuV)	Limits	s(dBuV)	Safe N	Margins
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
0.19	Line	46.40	*	64.04	54.04	-17.64	(QP)
0.37	Line	40.01	*	58.52	48.52	-18.51	(QP)
0.47	Line	38.01	*	56.59	46.59	-18.58	(QP)
0.75	Line	34.21	*	56.00	46.00	-21.79	(QP)
1.37	Line	30.15	*	56.00	46.00	-25.85	(QP)
2.61	Line	29.59	*	56.00	46.00	-26.41	(QP)
0.19	Neutral	49.20	*	64.04	54.04	-14.84	(QP)
0.37	Neutral	43.92	*	58.43	48.43	-14.51	(QP)
0.47	Neutral	39.21	*	56.59	46.59	-17.38	(QP)
0.75	Neutral	35.41	*	56.00	46.00	-20.59	(QP)
1.66	Neutral	33.10	*	56.00	46.00	-22.90	(QP)
2.61	Neutral	33.39	*	56.00	46.00	-22.61	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ∘ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz ∘
- (2) All readings are QP Mode value unless otherwise stated AVG in column of <code>『Note』</code>. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (3) Measuring frequency range from 150KHz to 30MHz o

	ITDA	N FM	^	
NH	IIKUI	V 1-1VI		IAR

Table 5 Radiated Emission Data

EUT: Mouse Model/Type No.: MS701U

Temperature : 18 °C Relative Humidity : 63 % Pressure : 1024.4 hPa

Special Notes: (EUT Operation Mode or Test Configuration Mode, if applicable)

Mode 1

Minimum passing margin is -2.45dB at 66.9MHz

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Safe Ma	argins
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Note
57.50	Н	28.20	- 7.81	20.39	30.00	- 9.61	
63.31	V	28.40	- 8.27	20.13	30.00	- 9.87	(QP)
63.70	Н	31.60	- 8.34	23.26	30.00	- 6.74	
66.90	Н	36.30	- 8.75	27.55	30.00	- 2.45	
67.22	V	35.30	- 8.78	26.52	30.00	- 3.48	
72.56	V	37.10	- 9.58	27.52	30.00	- 2.48	
207.10	V	30.00	- 9.96	20.04	30.00	- 9.96	
216.80	Н	29.40	- 10.28	19.12	30.00	- 10.88	
281.20	V	30.70	- 6.31	24.39	37.00	- 12.61	
301.00	Н	29.20	- 5.20	24.00	37.00	- 13.00	
334.10	Н	31.30	- 5.05	26.25	37.00	- 10.75	
336.20	V	30.80	- 5.04	25.76	37.00	- 11.24	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of $^{\mathbb{F}}$ Note $_{\mathbb{F}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measure-ment didn't perform $_{\circ}$
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table \circ

NICI	ITRO	M E	M	IAD
NE	IIRU		IVIL - I	I AD.

Table 5 Radiated Emission Data

EUT: Mouse Model/Type No.: MS701U

Temperature : 18 °C Relative Humidity : 63 % Pressure : 1024.4 hPa

Special Notes: (EUT Operation Mode or Test Configuration Mode, if applicable)

Mode 2

Minimum passing margin is -2.79dB at 48MHz

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Safe Mar	gins
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m) 1	Vote
48.00	V	34.70	- 7.49	27.21	30.00	- 2.79	
48.01	Н	32.90	- 7.49	25.41	30.00	- 4.59	
66.50	Н	34.10	- 8.69	25.41	30.00	- 4.59 ((QP)
66.51	V	32.20	- 8.69	23.51	30.00	- 6.49 ((QP)
72.55	V	36.40	- 9.58	26.82	30.00	- 3.18	
72.56	Н	34.80	- 9.58	25.22	30.00	- 4.78	
206.90	Н	27.80	- 9.96	17.84	30.00	- 12.16	
207.70	V	29.10	- 10.03	19.07	30.00	- 10.93	
301.10	Н	29.90	- 5.20	24.70	37.00	- 12.30	
309.40	V	29.60	- 5.16	24.44	37.00	- 12.56	
334.70	V	29.90	- 5.05	24.85	37.00	- 12.15	
335.60	Н	29.70	- 5.05	24.65	37.00	- 12.35	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of $^{\mathbb{F}}$ Note $_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measure-ment didn't perform $_{\circ}$
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table \circ

NEU	TDN	N <i>I C</i> N	AC I	ΛD
NEU	IRUI	IV C IV	11 L	_AD.

Attachment

Table Contents

- A. EUT Test Photos
- B. Product Labeling

NEUTRON EMC LAB.	

Attachment - A.

EUT Test Photos

- 1. Conducted Measurement Photos
- 2. Radiated Measurement Photos

NEU	TDN	N <i>I C</i> N	AC I	ΛD
NEU	IRUI	IV C IV	11 L	_AD.

Project No.: 05E0017

ATTACHMENT

05E0017

PHOTOGRAPHS OF EUT