### **FCC Radio TEST Report**

FCC ID: SGPK288001

This report concerns (check one): Original Grant Class II Change

Issued Date : Feb. 08, 2011

Project No. : 1101C168

Equipment : Wireless Keyboard

Model Name : K2880G

Applicant : Shenzhen Delux Industry Co., Ltd.

Address

: Delux Industrial Park, East Zone Baishixia Village,

FuYong Town Baoan, Shenzhen City China

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Jan. 24, 2011

Date of Test:

Jan. 24, 2011 ~ Jan. 29, 2011

Testing Engineer

Technical Manager

Authorized Signatory

Neutron Engineering Inc.

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#### **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.** 

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#### Limitation

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#### 1. CERTIFICATION

Equipment: Wireless Keyboard

Brand Name : DELUX Model Name : K2880G

Applicant: Shenzhen Delux Industry Co., Ltd. Date of Test: Jan. 24, 2011 ~ Jan. 29, 2011 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.249)/ ANSI C63.4: 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1101C168) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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#### 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)								
Standard Section	Test Item	Judgment	Remark					
15.207	Conducted Emission	PASS						
15.209	Radiated Emission	PASS						
15.249	Radiated Spurious Emission	PASS						

#### NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) The EUT used new battery.

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#### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03**at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number is 319330

#### 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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 95 %  $\circ$ 

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		30MHz ~ 200MHz	V	2.48	
CB03	CISPR	30MHz ~ 200MHz	Н	2.16	
СВОЗ	CISER	200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	

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#### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Keyboard					
Brand Name	DELUX					
Model Name.	K2880G					
OEM Brand/Model Name	N/A					
Model Difference	N/A					
Product Description	exhibited in User's Man ITE/Computing Device.	Low Power Communication Device 2402~2480 MHz GFSK 1Mbps 79CH .Please see note 2. Printed antenna 1.69 dBi 77.06dBuV/m (AV Max.) on, features, or specification ual, the EUT is considered as an More details of EUT technical				
Channel List	specification. Please refer to the User's Manua Please refer to the Note 2.					
Power Source	DC Voltage supplied from battery					
Power Rating	DC 3.7V 560mAh (Mod	el :PL453044)				
Connecting I/O Port(s)	Please refer to the Use	r's Manual				

#### Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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According to the definition of FHSS modulation, adaptive frequency hopping: b) at least be capable of operating over a minimum of 90 % of the band specified in table 1, from which at any given time a minimum of 20 channels or hopping channels shall be used.

The EUT 8 channels of each sequence, total 30 sequences is used, so it not considered as a hopping device.

2.

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

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3

Hopping Channel List									
Group	Group	Group	Group	Group	Group	Group	Group		
1	2	3	4	5	6	7	8		
2402	2404	2405	2406	2407	2408	2409	2410		
2417	2414	2415	2416	2413	2422	2419	2420		
2423	2427	2425	2426	2424	2428	2432	2430		
2433	2434	2437	2436	2435	2438	2439	2442		
2443	2444	2445	2447	2446	2448	2449	2450		
2453	2454	2455	2456	2458	2457	2459	2460		
2462	2464	2465	2466	2469	2468	2467	2470		
2473	2472	2475	2476	2480	2478	2479	2477		

| Group |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    |
| 2411  | 2412  | 2402  | 2404  | 2405  | 2406  | 2407  | 2408  |
| 2421  | 2418  | 2417  | 2414  | 2415  | 2416  | 2413  | 2422  |
| 2431  | 2429  | 2423  | 2427  | 2425  | 2426  | 2424  | 2428  |
| 2441  | 2440  | 2433  | 2434  | 2437  | 2436  | 2435  | 2438  |
| 2452  | 2451  | 2443  | 2444  | 2445  | 2447  | 2446  | 2448  |
| 2461  | 2463  | 2453  | 2454  | 2455  | 2456  | 2458  | 2457  |
| 2471  | 2474  | 2462  | 2464  | 2465  | 2466  | 2469  | 2468  |
| 2480  | 2480  | 2473  | 2472  | 2475  | 2476  | 2480  | 2478  |

Group 17	Group 18	Group 19	Group 20	Group 21	Group 22	Group 23	Group 24
2409	2410	2411	2412	2402	2404	2405	2406
2419	2420	2421	2418	2417	2414	2415	2416
2432	2430	2431	2429	2423	2427	2425	2426
2439	2442	2441	2440	2433	2434	2437	2436
2449	2450	2452	2451	2443	2444	2445	2447
2459	2460	2461	2463	2453	2454	2455	2456
2467	2470	2471	2474	2462	2464	2465	2466
2479	2477	2480	2480	2473	2472	2475	2476

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3.

Hopping Channel List									
Group	Group	Group	Group	Group	Group				
25	26	27	28	29	30				
2407	2408	2409	2410	2411	2412				
2413	2422	2419	2420	2421	2418				
2424	2423	2420	2430	2431	2429				
2435	2438	2439	2442	2441	2440				
2446	2448	2449	2450	2452	2451				
2458	2457	2459	2460	2461	2463				
2469	2468	2467	2470	2471	2474				
2480	2478	2479	2477	2480	2480				

#### 4. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	1.69

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#### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based 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.

Pretest Mode	Description				
Mode 1	CH Lower - 2402MHz				
Mode 2	CH Middle - 2448MHz				
Mode 3	CH Highest -2480MHz				
Mode 4	Charge Mode				

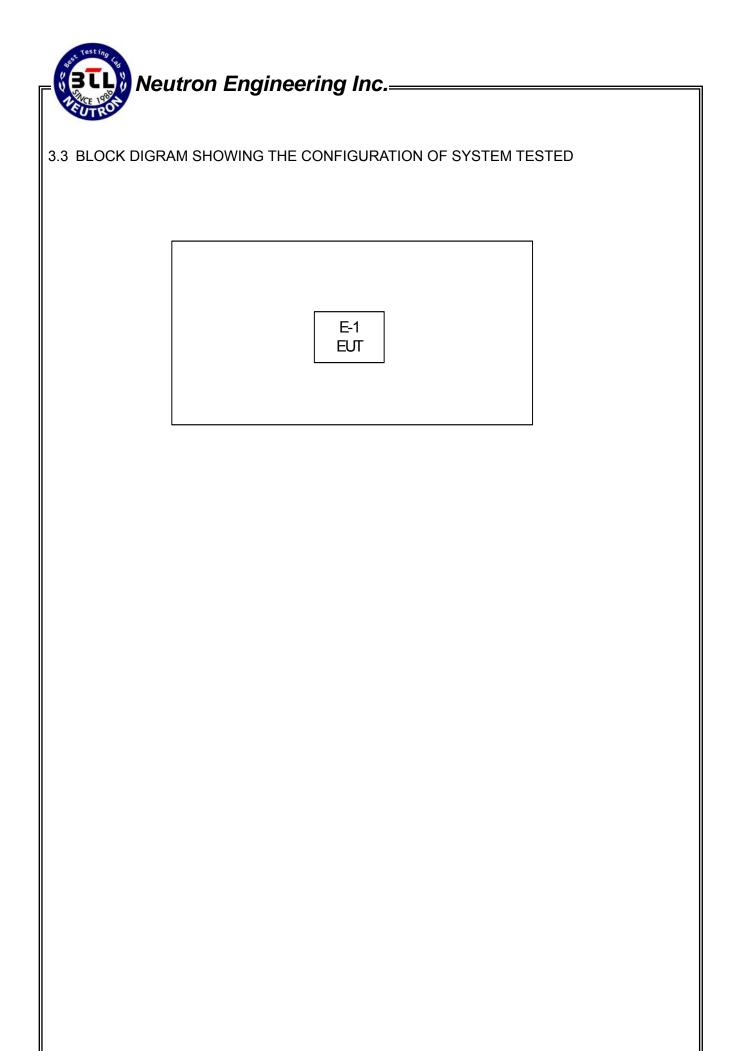
For Conducted Test				
Final Test Mode Description				
Mode 4 Charge Mode				

For Radiated Test				
Final Test Mode Description				
Mode 1	CH Lower - 2402MHz			
Mode 2	CH Middle - 2448MHz			
Mode 3	CH Highest -2480MHz			

#### Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

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#### 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.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Wireless Keyboard	DELUX	K2880G	SGPK288001	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in m in <code>[Length]</code> column.

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#### 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
TREQUENCT (MHZ)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

#### Note:

- (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.

#### 4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	May.26.2011
2	LISN	Rolf Heine	NNB-2-16Z	99044	May.26.2011
3	50Ω Terminator	SHX	TF2-3G-A	08122901	May.26.2011
4	Transient Limiter	Agilent	11947A	3107A03668	May.26.2011
5	Test Cable	N/A	C-06_C03	N/A	Nov.15.2011
6	EMI TEST RECEIVER	R&S	ESCS30	8333641017	May.26.2011

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

#### The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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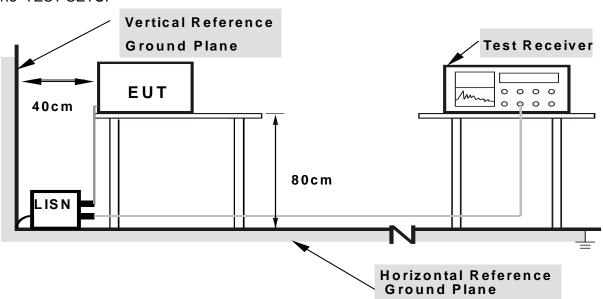
#### 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 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) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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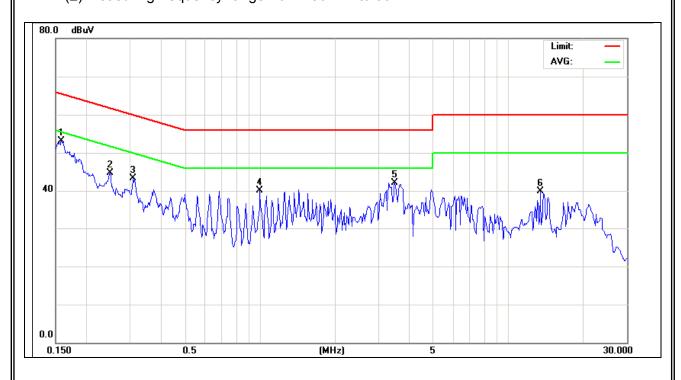
#### 4.1.7 TEST RESULTS

EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>21</b> ℃	Relative Humidity:	50 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	Charge Mode		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.16	Line	53.07	*	65.56	55.56	-12.49	(QP)
0.25	Line	44.67	*	61.82	51.82	-17.15	(QP)
0.31	Line	43.28	*	60.06	50.06	-16.78	(QP)
0.99	Line	40.04	*	56.00	46.00	-15.96	(QP)
3.49	Line	42.09	*	56.00	46.00	-13.91	(QP)
13.41	Line	39.85	*	60.00	50.00	-20.15	(QP)

#### Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... 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 •
- (2) Measuring frequency range from 150KHz to 30MHz o



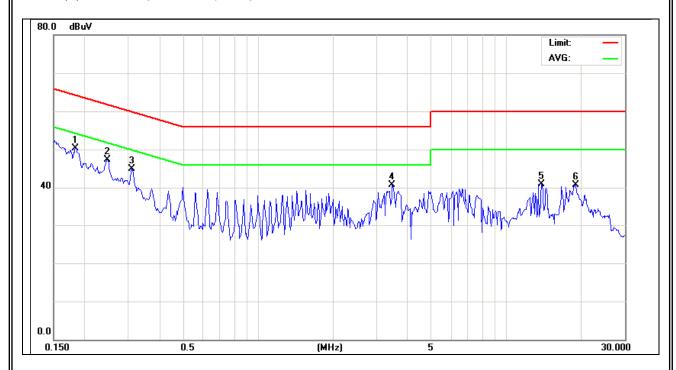
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EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>21</b> ℃	Relative Humidity:	50 %
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	Charge Mode		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.18	Neutral	50.32	*	64.34	54.34	-14.02	(QP)
0.25	Neutral	47.38	*	61.87	51.87	-14.49	(QP)
0.31	Neutral	44.95	*	59.97	49.97	-15.02	(QP)
3.47	Neutral	40.64	*	56.00	46.00	-15.36	(QP)
13.84	Neutral	40.91	*	60.00	50.00	-19.09	(QP)
19.02	Neutral	40.77	*	60.00	50.00	-19.23	(QP)

#### Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... 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 •
- (2) Measuring frequency range from 150KHz to 30MHz  $\circ$



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#### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 RADIATED EMISSION LIMITS (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/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

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	(dBuV/m) (at 3m)			
FREQUENCY (WITZ)	PEAK	AVERAGE		
Above 1000	74	54		

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

FCC Part15 (15.249) , Subpart C						
Limit	Frequency Range (MHz)					
Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m	2400-2483.5					
Field strength of harmonics 500 μV/m (54 dBμV/m) @ 3 m	Above 2483.5					

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#### 4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Triple Loop Antenna	R&S	HFH2-Z2	830749/020	May.27.2011
2	Bi-log Antenna	Schwarbeck	VULB9160	9160-3232	May.26.2011
3	Horn Antenna	ETS	3115	00075789	May.12.2011
4	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170340	Dec.15.2011
5	Amplifier	HP	8447D	2944A09673	May.26.2011
6	Amplifier	Agilent	8449B	3008A02274	May.26.2011
7	Amplifier	EMC	EMC2654045	980039	Aug.12.2011
8	Test Receiver	R&S	ESCI	100895	May.26.2011
9	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011
10	Test Cable	N/A	C-01_CB03	N/A	Jul.05.2011
11	Test Cable	HUBER+SUHNER	SUCOFLEX_8 m	313794/4	Apr.12.2011
12	Controller	СТ	SC100	N/A	N/A

Remark: "N/A" denotes No Model Name. / Serial No. and No Calibration specified.

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook, 1 MHz / 10Hz for Average		
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average		

Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP		
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP		
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP		

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#### 4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

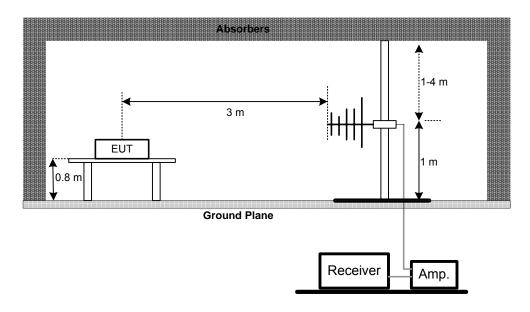
4.2.4 DEVIATION FROM TEST STANDARD
No deviation

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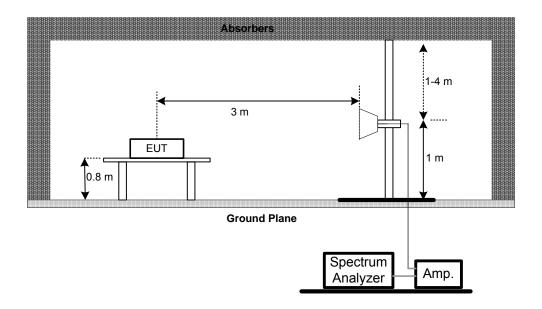


#### 4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



#### 4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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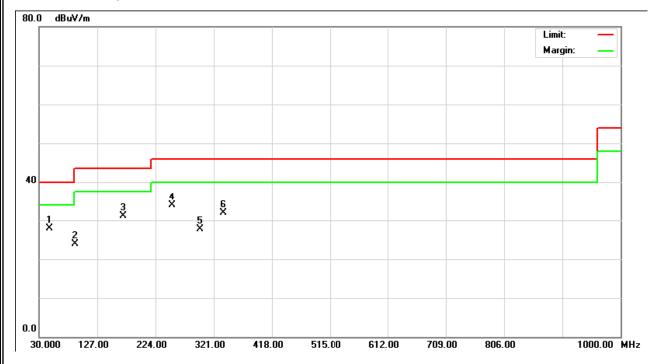
#### 4.2.7 TEST RESULTS (BETWEEN 30 - 1000 MHz)

EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX 2480MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
46.75	V	44.95	-17.09	27.86	40.00	- 12.14	
89.36	V	43.04	-19.07	23.97	43.50	- 19.53	
168.49	V	48.41	-17.35	31.06	43.50	- 12.44	
249.78	V	48.55	-14.58	33.97	46.00	- 12.03	
297.56	V	39.87	-12.07	27.80	46.00	- 18.20	
336.45	V	43.06	-11.17	31.89	46.00	- 14.11	

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note $_{
  m l}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m o}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency  $\circ$  "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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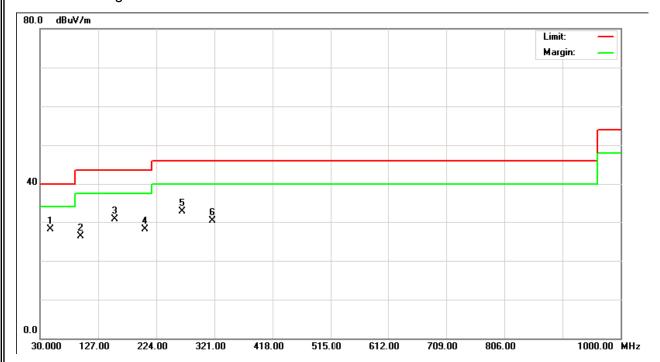


EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>23</b> ℃	Relative Humidity:	51 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX 2480MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
46.75	H	45.18	-17.09	28.09	40.00	- 11.91	
96.32	Н	44.85	-18.46	26.39	43.50	- 17.11	
153.67	Н	48.36	-17.58	30.78	43.50	- 12.72	
203.98	Н	44.63	-16.47	28.16	43.50	- 15.34	
264.89	Н	46.35	-13.58	32.77	46.00	- 13.23	
316.82	Н	41.91	-11.65	30.26	46.00	- 15.74	

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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#### 4.2.8 TEST RESULTS (ABOVE 1000 MHz)

EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>23</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX 2402MHz		

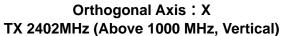
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	20.90	10.98	31.91	52.81	42.89	74.00	54.00	X/E
2402.00	V	45.41	44.76	31.90	77.31	76.66	114.00	94.00	X/F
4804.46	V	43.68	41.98	5.21	48.89	47.19	74.00	54.00	X/H

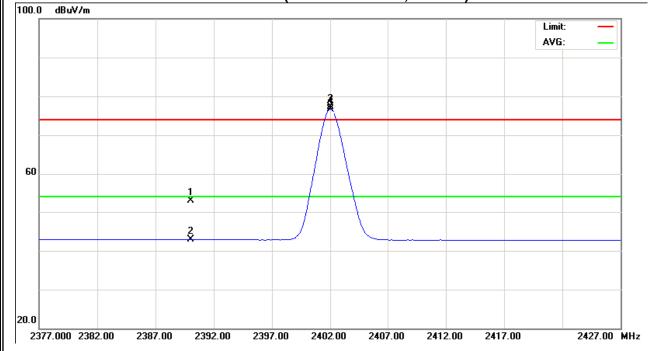
#### Remark:

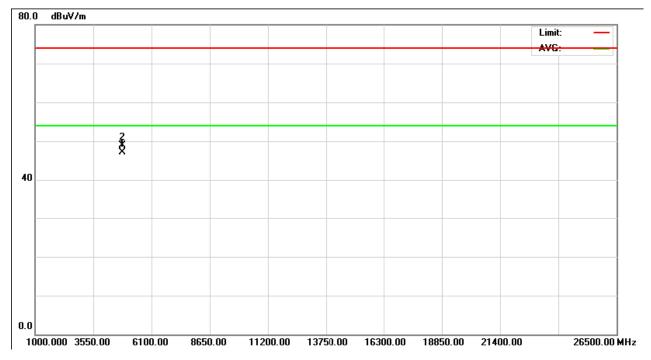
- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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## Neutron Engineering Inc.=







EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>23</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX 2402MHz		

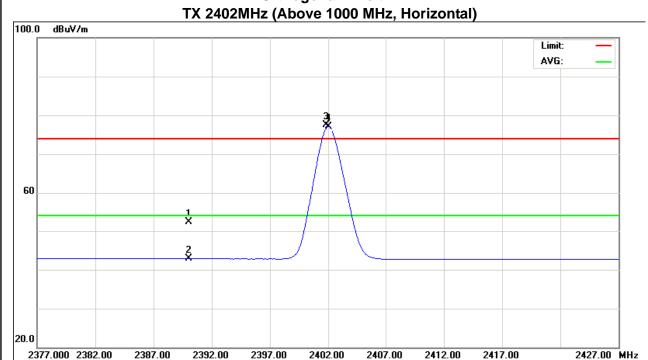
Freq.	Ant.Pol.	Reading		Ant./CF	Ad	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2390.00	Н	20.46	10.91	31.91	52.37	42.82	74.00	54.00	X/E	
2401.80	Н	45.69	45.16	31.90	77.59	77.06	114.00	94.00	X/F	
4804.38	Н	42.74	40.98	5.21	47.95	46.19	74.00	54.00	X/H	

#### Remark

- (1) 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 measurement didn't perform  $_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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# Neutron Engineering Inc. Orthogonal Axis: X TX 2402MHz (Above 1000 MHz,





EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>23</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX 2448MHz		

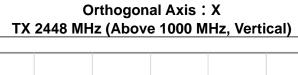
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.10	V	44.22	43.42	31.84	76.06	75.26	114.00	94.00	X/F
4896.24	V	42.03	40.41	5.56	47.59	45.97	74.00	54.00	X/H

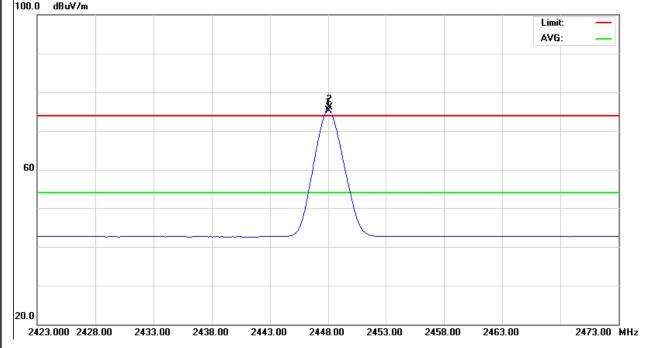
#### Remark:

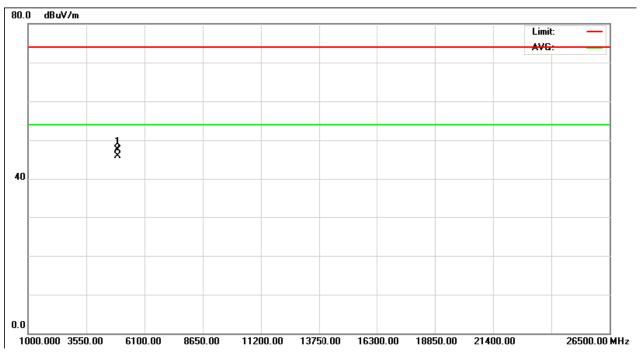
- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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# Neutron Engineering Inc.= Orthogonal Ax TX 2448 MHz (Above 100







EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>23</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX 2448MHz		

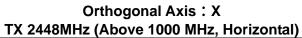
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.10	Н	45.37	44.70	31.84	77.21	76.54	114.00	94.00	X/F
4896.59	Н	41.76	40.48	5.56	47.32	46.04	74.00	54.00	X/H

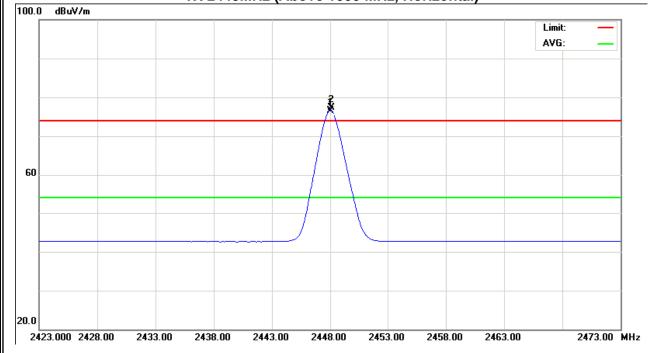
#### Remark:

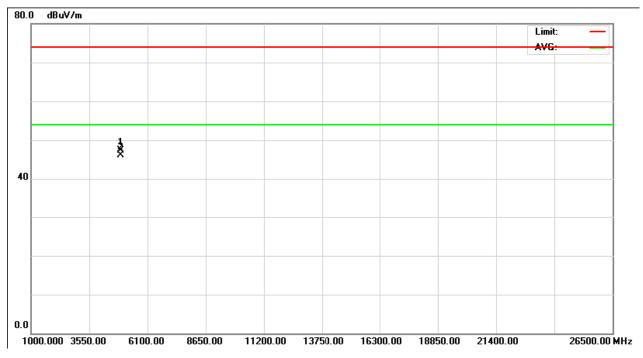
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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## Neutron Engineering Inc.= Orthogonal Ax TY 2448MHz (Above 1000







EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>23</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX 2480MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	V	43.51	42.87	31.80	75.31	74.67	114.00	94.00	X/F
2483.50	V	21.55	11.29	31.80	53.35	43.09	74.00	54.00	X/E
4959.88	V	42.30	40.98	5.78	48.08	46.76	74.00	54.00	X/H

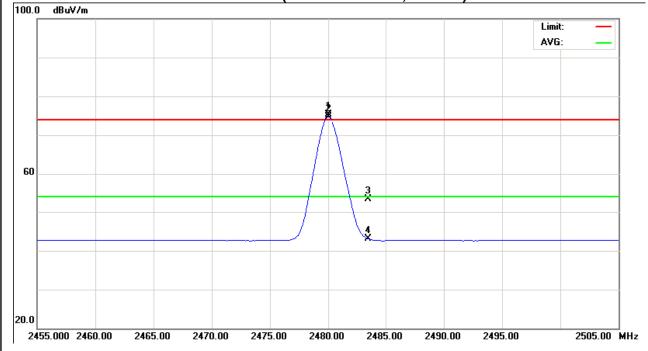
#### Remark:

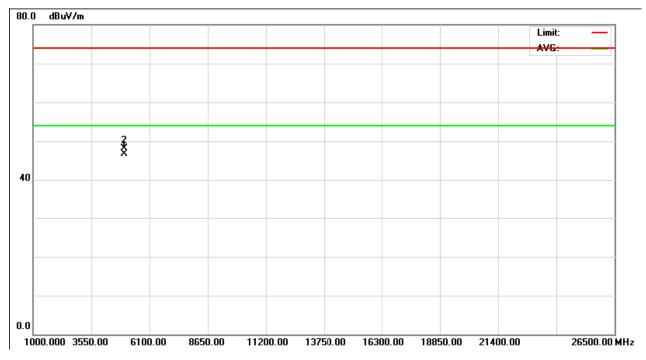
- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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### Neutron Engineering Inc.=







EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>23</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX 2480MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2480.00	Н	44.80	44.20	31.80	76.60	76.00	114.00	94.00	X/F	
2483.50	Н	20.89	11.40	31.80	52.69	43.20	74.00	54.00	X/E	
4960.86	Н	41.98	40.10	5.79	47.77	45.89	74.00	54.00	X/H	

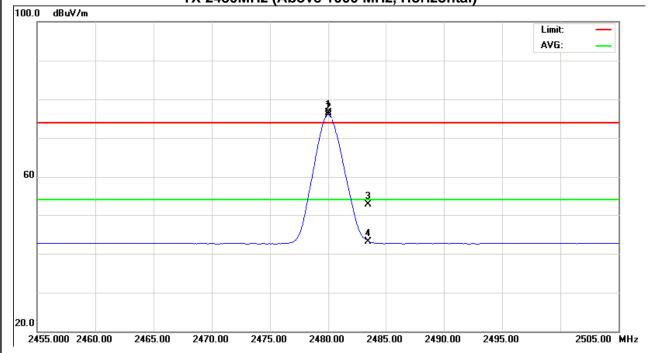
#### Remark:

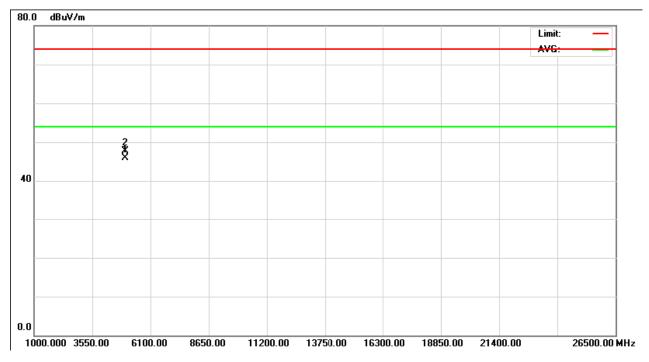
- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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## Neutron Engineering Inc.=

### Orthogonal Axis: X TX 2480MHz (Above 1000 MHz, Horizontal)





#### 4.2.9 TEST RESULTS (2400 - 2483.5 MHz)

EUT:	Wireless Keyboard	Model Name. :	K2880G	
Temperature:	<b>23</b> ℃	Relative Humidity:	58 %	
Pressure:	1009 hPa	Test Power :	DC 3.7V	
Test Mode :	TX CH 2402MHz/2448MHz/2480MHz			

		Peak	AV		Peak	AV	Peak	AV	
Freq.	Ant.Pol.	Rea	ding	Ant./CL/	Actua	al FS	Lim	it3m	
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	NOTE
2402.00	V	45.41	44.76	31.90	77.31	76.66	114.00	94.00	CH00
2402.00	Н	45.69	45.16	31.90	77.59	77.06	114.00	94.00	CH00
2448.10	V	44.22	43.42	31.84	76.06	75.26	114.00	94.00	CH39
2448.10	Н	45.37	44.70	31.84	77.21	76.54	114.00	94.00	CH39
2480.00	V	43.51	42.87	31.80	75.31	74.67	114.00	94.00	CH78
2480.00	Н	44.80	44.20	31.80	76.60	76.00	114.00	94.00	CH78

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (3) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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#### 5. BANDWIDTH TEST

#### 5.1 MEASUREMENT INSTRUMENTS LIST

11	tem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

#### 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 2.5 ms.

#### 5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

#### 5.5 EUT OPERATION CONDITIONS

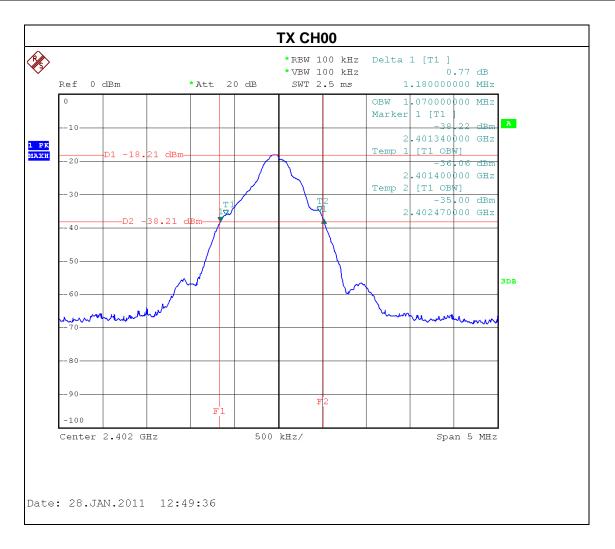
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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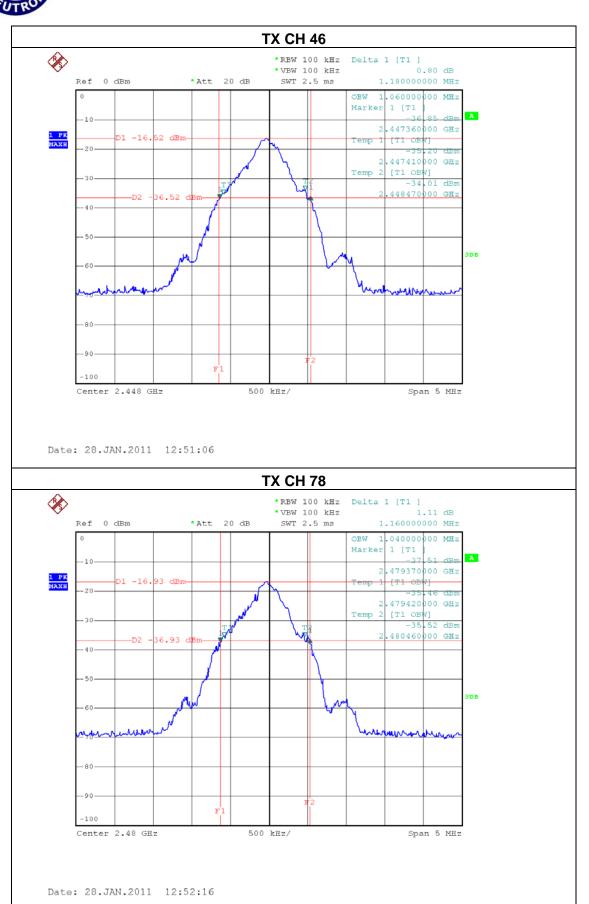
#### 5.6 TEST RESULTS

EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>23</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX CH 00/46/78		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% occupied Bandwidth(MHz)
CH00	2402	1.180	1.070
CH46	2448	1.180	1.060
CH78	2480	1.160	1.040



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#### 6. ANTENNA CONDUCTED SPURIOUS EMISSION

#### 6.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

#### 6.1.1 MEASUREMENT INSTRUMENTS LIST

Iter	n Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

#### 6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms.

#### 6.1.3 DEVIATION FROM STANDARD

No deviation.

#### 6.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

#### 6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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#### 6.1.6 TEST RESULTS

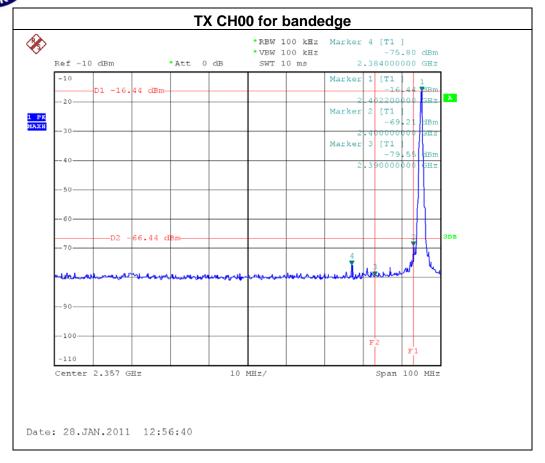
EUT:	Wireless Keyboard	Model Name. :	K2880G
Temperature:	<b>21</b> ℃	Relative Humidity:	60 %
Pressure:	1009 hPa	Test Power :	DC 3.7V
Test Mode :	TX CH00, CH46, CH78		

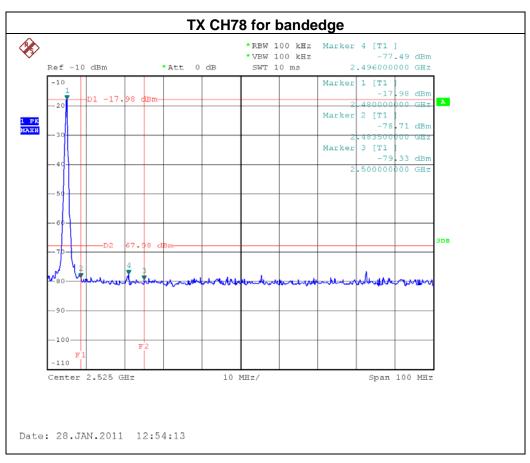
Channel of Worst Data: CH01					
The max. radio frequency power in any 100kHz bandwidth outside the frequency band bandwidth within the frequency					
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2384.00 -75.80 2496.00 -77.49					
	Pocult				

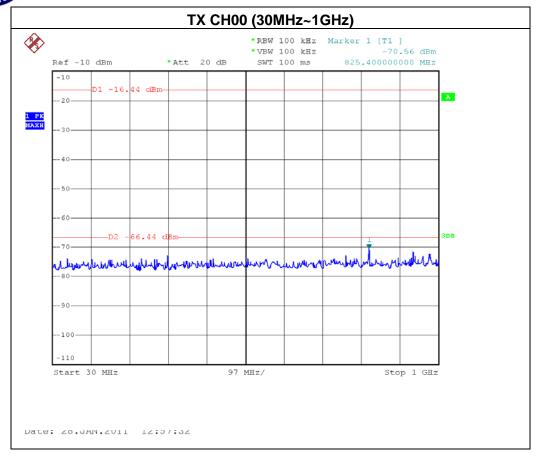
#### Result

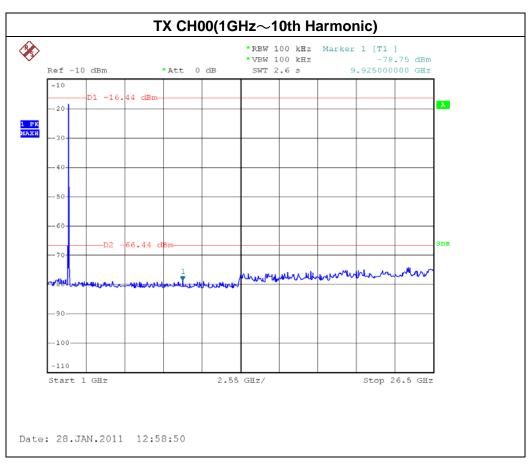
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 50dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

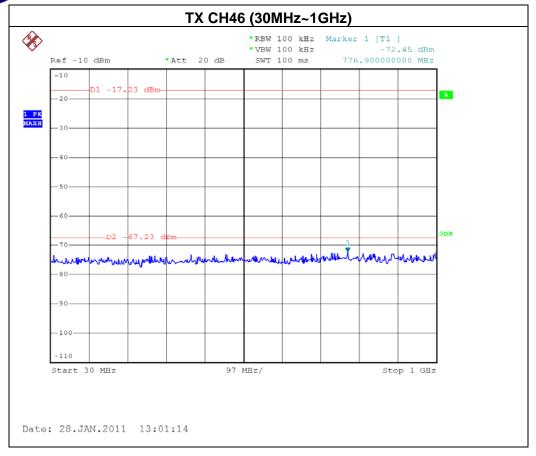
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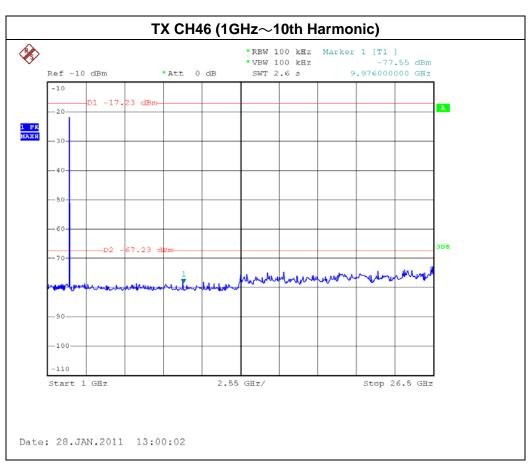


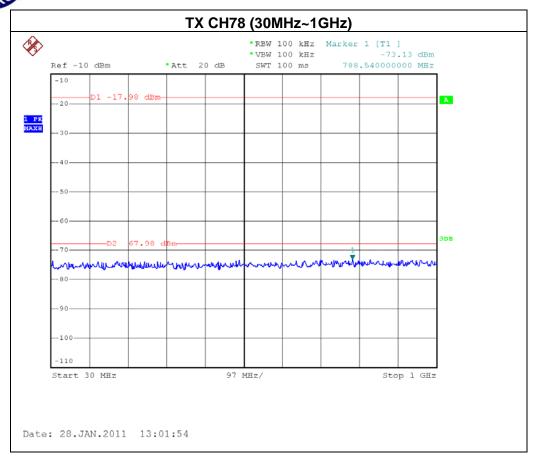


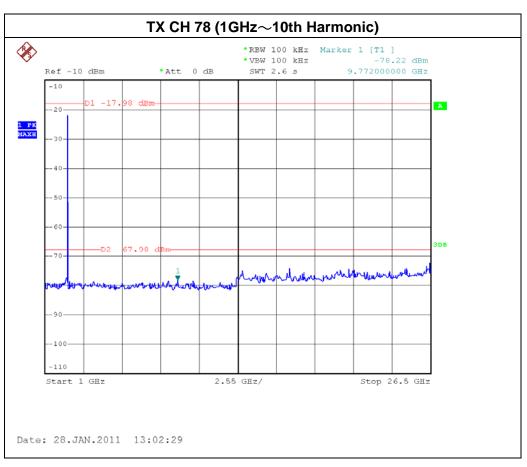














#### 7. EUT TEST PHOTO

## Conducted Measurement Photos Charge Mode

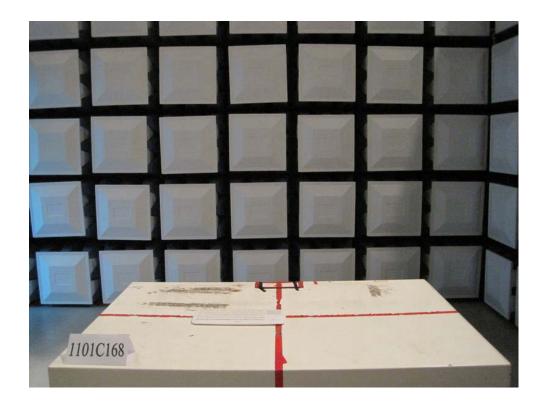




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#### **Radiated Measurement Photos**





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