	FCC Radio Test Report
	FCC ID: XW3LMI815
This report	t concerns (check one) : Original Grant Class II Change
	Issued Date: Sep. 01, 2010Project No.: 1008C265Equipment: LuxeMate i815Model Name: GK-100006;DK-9121RLApplicant: Dongguan Siliten Electronics CO.,LTDAddress: Sijia Yewu Industrial estate, Shijie Town, Dongguan City, Guangdong Province, China
	Tested by: Neutron Engineering Inc. EMC Laboratory
	Date of Receipt: Aug. 26, 2010
	Date of Test: Aug. 26, 2010 ~ Sep. 01, 2010
	7 00
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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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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentio ned in this test report is (are) included in the conformity assessment authorities acceptance respective.



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1. CERTIFICATION

Equipment:	LuxeMate i815	
Brand Name :	Genius	N/A
Model Name :	GK-100006	DK-9121RL
Applicant:	Dongguan Siliten Electronics CO.,L	ΓD.
	Aug. 26, 2010 ~ Sep. 01, 2010	
Test Item:	ENGINEERING SAMPLE	
Standards:	FCC Part15, Subpart C(15.247) / Al	NSI 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-1-1008C265) 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).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	N/A	Note(1)	
15.247 (c)	Antenna conducted Spurious Emission	PASS		
15.247 (a)(1)	Hopping Channel Separation	PASS		
15.247 (b)(1)	Peak Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS		
15.247 (a)(1)(iii)	Dwell Time	PASS		
15.205	Restricted Bands	PASS		
15.203	Antenna Requirement	PASS		
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS		

NOTE:

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

(2) The EUT used new battery.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C03/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 y \pm U $_{\rm 2}$ where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of ~ k=2 $_{\rm 2}$ providing a level of confidence of approximately 95 % $_{\rm 2}$

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C03	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Ant. Range H / V U , (dB		U,(dB)	NOTE
		30MHz ~ 200MHz	V	3.82	
CB03	CISPR	30MHz ~ 200MHz	Н	3.60	
CBUS		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	LuxeMate i815			
Trade Name	Genius	N/A		
Model Name	GK-100006	DK-9121RL		
OEM Brand/Model Name	N/A			
Model Difference	Current, Voltage and Main-PCB are the same. Differences are brand and model.			
Product Description	Modulation Type:Number Of ChannelAntenna Designation:Antenna Gain(Peak)Output Power:Based on the applicationexhibited in User's Manu	2405~2476 MHz GFSK 64CH .Please see Note 2. Please see Note 3. Please see Note 3. -5.96 dBm , features, or specification al, the EUT is considered as an <i>I</i> ore details of EUT technical		
Channel List	Please refer to the Note 2.			
Power Source	DC Voltage supplied from battery			
Power Rating	DC 3.0V			
Connecting I/O Port(s)	Please refer to the User's Manual			
Products Covered	N/A			
EUT Modification(s)	N/A			

Note:

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

2.

Group 1		Group 2		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	2405	33	2407	
2	2406	34	2408	
3	2409	35	2412	
4	2410	36	2414	
5	2411	37	2417	
6	2412	38	2420	
7	2415	39	2421	
8	2416	40	2422	
9	2418	41	2427	
10	2419	42	2428	
11	2423	43	2431	
12	2425	44	2435	
13	2429	45	2436	
14	2430	46	2437	
15	2432	47	2438	
16	2434	48	2439	
17	2443	49	2442	
18	2444	50	2447	
19	2446	51	2451	
20	2448	52	2452	
21	2449	53	2457	
22	2453	54	2458	
23	2455	55	2459	
24	2456	56	2460	
25	2462	57	2461	
26	2463	58	2465	
27	2464	59	2468	
28	2466	60	2469	
29	2467	61	2472	
30	2470	62	2473	
31	2471	63	2475	
32	2474	64	2476	

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	1.35



3.2 DESCRIPTION OF TEST MODES

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.

Pretest Mode	Description	
Mode 1	CH01	
Mode 2	CH48	
Mode 3	CH64	

For Conducted Emission				
Final Test Mode Description				
-	"N/A" denotes test is not applicable in this Test Report			

For Radiated Emission			
Final Test Mode	Description		
Mode 1	CH01		
Mode 2	CH48		
Mode 3	CH64		

Note:

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

(2) The EUT use new battery.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: Hardware control				
Frequency	2405 MHz 2439MHz 2476MHz				
Parameters(1Mbps)	N/A	N/A	N/A		

BLOCK DIGRA	I SHOWING THE CONFIGURATION OF SY	STEM TESTED
	E-1 EUT	



3.1 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	LuxeMate i815	Genius	GK-100006	XW3LMI815	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 cm in ^[]Length ^[] column.



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	
	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 AND SETTING

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.16.2010
6	EMI TEST RECEIVER	R&S	ESCS30	8333641017	May.26.2011

Remark: " N/A" denotes No Model No. , 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

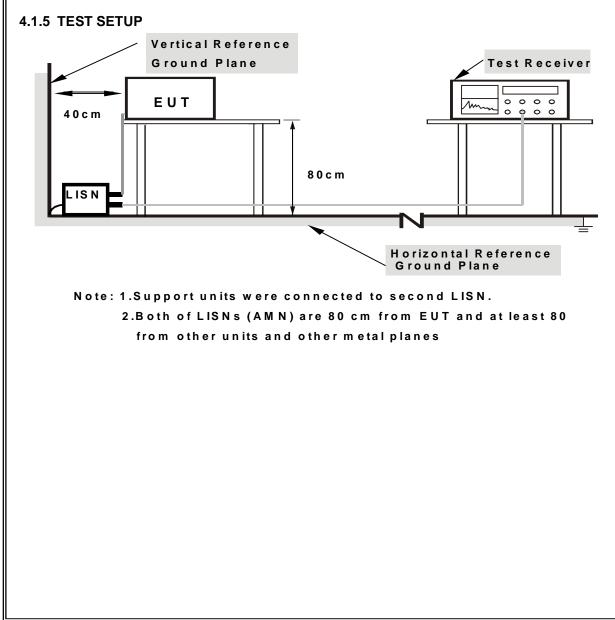


4.1.3 TEST PROCEDURE

- 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





4.1.6 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.

- 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. Dongle send messages via Mouse/ Keyboard
- 6. Repeated from 2 to 5 continuously.

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



4.1.7 TEST RESULTS

EUT :	LuxeMate i815	Model Name :	GK-100006	
Temperature :		Relative Humidity :		
Pressure :		Test Power :		
Test Mode :	" N/A" denotes test is not applicable in this Test Report			

Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of ^rNote ... 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 ${\scriptstyle \circ}$



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

(dBuV/n	n) (at 3M)
PEAK	AVERAGE
74	54
	PEAK

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).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	ETS	3115	00075789	May.13.2010
2	Amplifier	Agilent	8449B	3008A02274	May.26.2011
3	Spectrum	Agilent	E4408B	US39240143	Nov.16.2010
4	Test Cable	HUBER+SUHNER	CB03 High Fre	N/A	May.04.2010
5	Antenna	Schwarbeck	VULB9160	9160-3232	May.26.2011
6	Amplifier	HP	8447D	2944A09673	May.26.2011
7	Test Receiver	R&S	ESCI	100895	May.26.2011
8	Test Cable	N/A	C-01_CB03	N/A	Jul.06.2010
9	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 band)	1 MHz / 1 MHz for Peak, Average=PK-dycty cycle

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



DUTY CYCLE : TX 2439MHz (1Mbps)

Dwell time=ON/ON+OFF

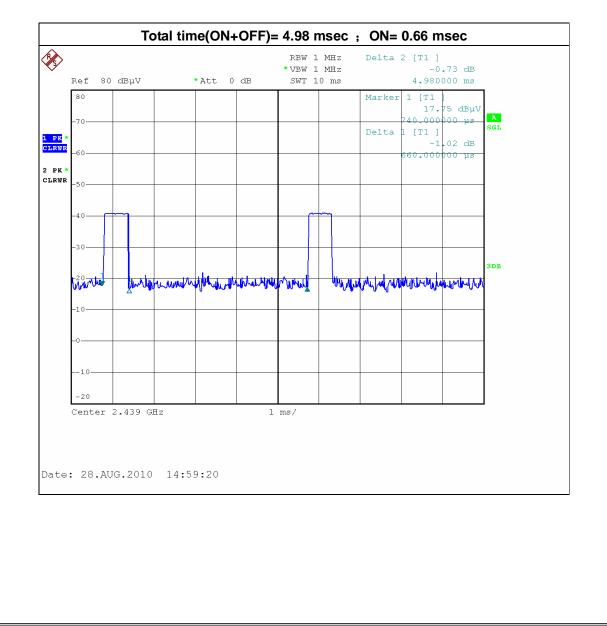
ON:0.66msec

ON+OFF:(total time):4.98msec

Dwell time:13.25%

AV=PK+20 log(Dwell time)

AV=PK-17.55



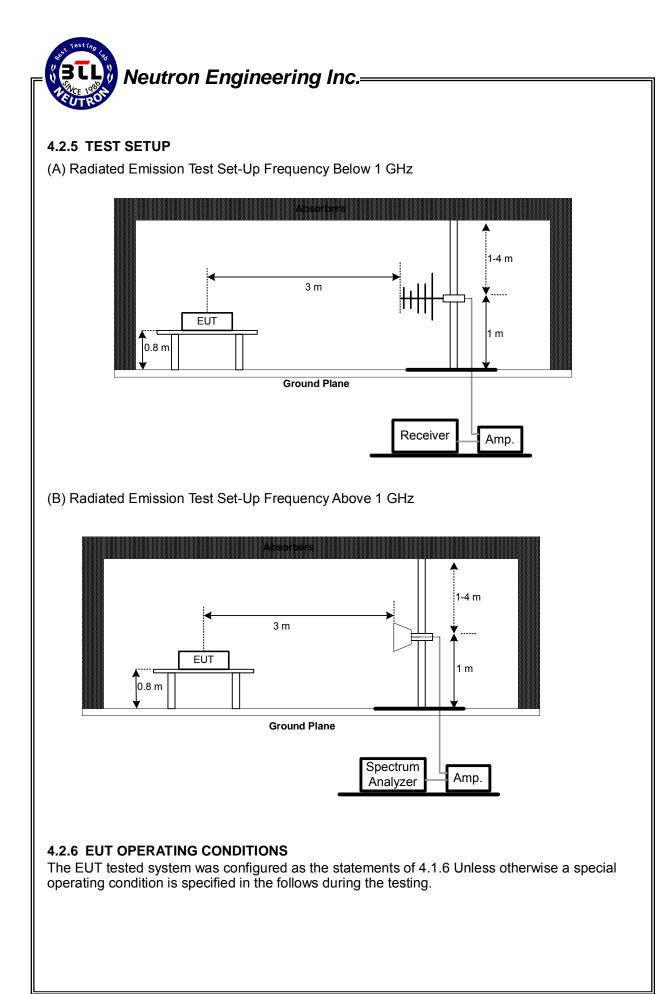


4.2.3 TEST PROCEDURE

- 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 3 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



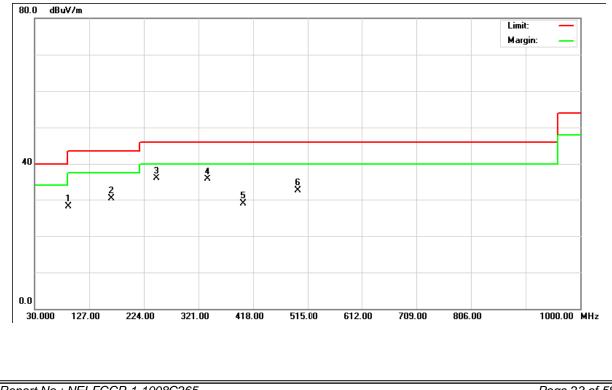


4.2.7 TEST RESULTS (BETWEEN30 – 1000 MHZ)

EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	23 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	TX Mode 2405MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
89.67	V	47.15	-19.07	28.08	43.50	- 15.42	
165.80	V	47.83	-17.45	30.38	43.50	- 13.12	
245.60	V	50.67	-14.83	35.84	46.00	- 10.16	
336.81	V	46.87	-11.16	35.71	46.00	- 10.29	
399.60	V	37.99	-9.03	28.96	46.00	- 17.04	
496.87	V	39.83	-7.41	32.42	46.00	- 13.58	

- (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 ${\space{-2.5pt}{$\,^\circ$}}$ Note $_{\space{-2.5pt}{$\,^\circ$}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${\space{-2.5pt}{$\,^\circ$}}$
- (3) Measuring frequency range from 30MHz to 1000MHz \circ
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ${}^{\circ}$

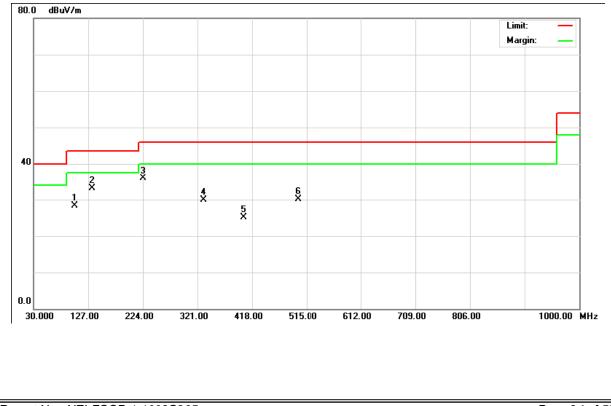




EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	23 °C	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	TX Mode 2405MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
101.83	H	46.73	-18.40	28.33	43.50	- 15.17	
133.45	Н	51.13	-17.99	33.14	43.50	- 10.36	
223.69	Н	51.75	-15.77	35.98	46.00	- 10.02	
330.87	Н	41.12	-11.31	29.81	46.00	- 16.19	
401.86	Н	34.11	-8.98	25.13	46.00	- 20.87	
499.35	Н	37.57	-7.37	30.20	46.00	- 15.80	

- (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 ∘
- (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 measurement didn't perform $_{\circ}\,$
- (3) Measuring frequency range from 30MHz to 1000MHz \circ
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ${}^{\circ}$



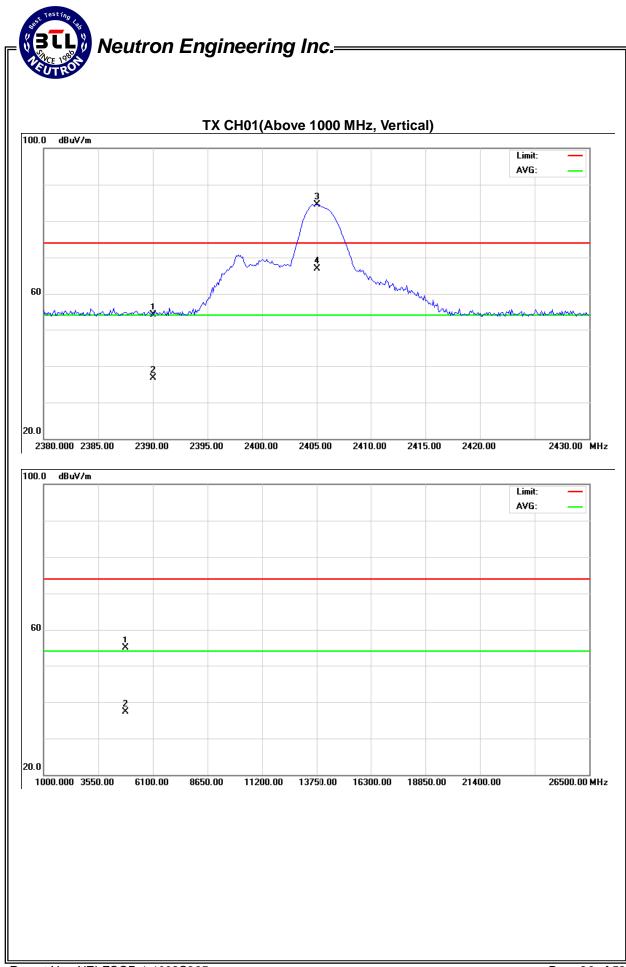


4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	TX 2405MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		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	22.62	5.07	31.54	54.16	36.61	74.00	54.00	X/E
2405.00	V	52.98	35.43	31.56	84.54	66.99			X/F
4809.92	V	48.96	31.37	5.97	54.93	37.34	74.00	54.00	X/H

- (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 $\[\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
- (8) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) , Final AV=PK-17.55

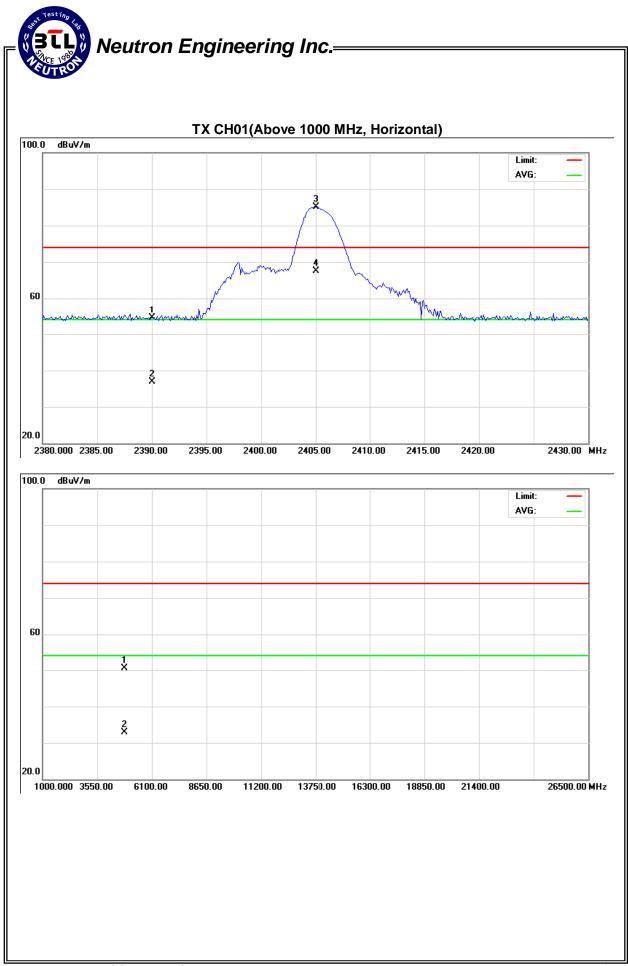




EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010hPa	Test Voltage :	DC 3.0V
Test Mode :	TX 2405MHz		

ſ	Freq.	Ant.Pol.	Reading		Ant./CF	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	22.97	5.42	31.54	54.51	36.96	74.00	54.00	X/E
	2405.00	Н	53.49	35.94	31.56	85.05	67.50			X/F
	4809.92	Н	44.52	26.97	5.97	50.49	32.94	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of ${\Bbb F}$ Note $_{\Bbb J}$. 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
- (8) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) , Final AV=PK-17.55

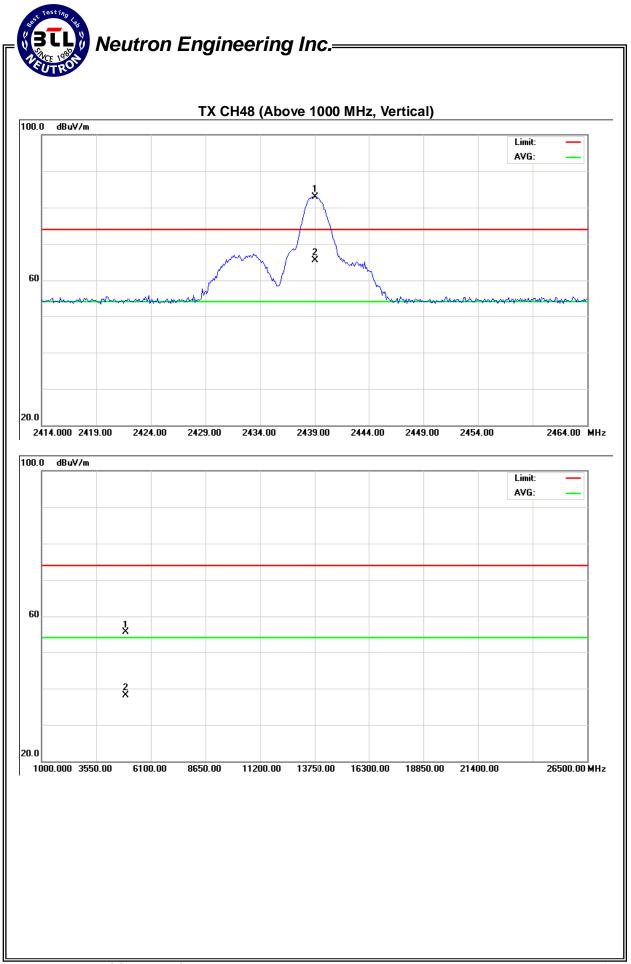




EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	TX 2439MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2439.00	V	51.35	33.80	31.62	82.97	65.42			X/F
4877.92	V	49.42	31.87	6.16	55.58	38.03	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of ${\Bbb F}$ Note $_{\Bbb I}$. 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
- (8) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) , Final AV=PK-17.55

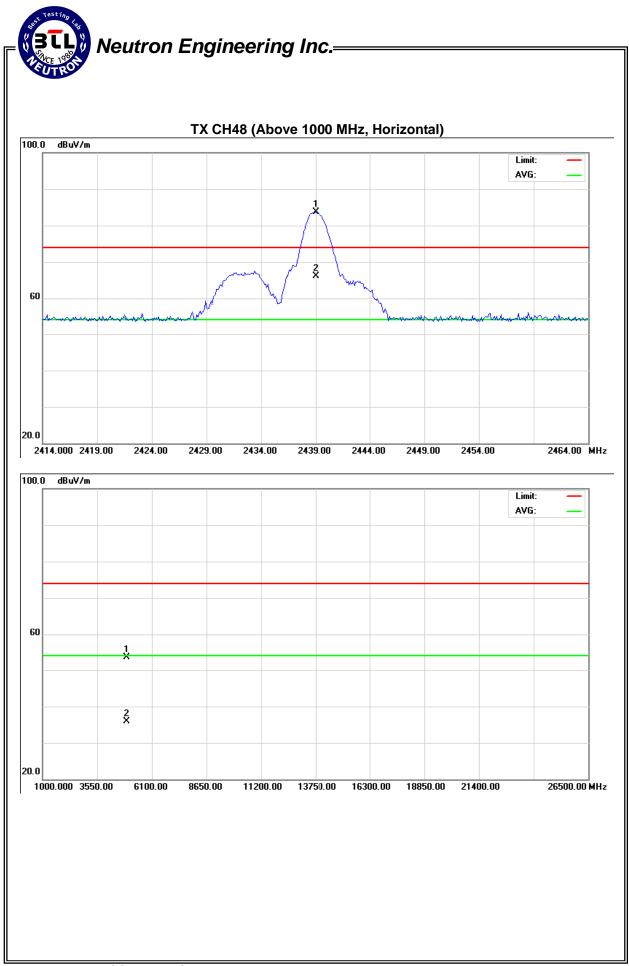




EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	TX 2439MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2439.00	Н	52.00	34.45	31.62	83.62	66.07			X/F
4877.56	Н	47.36	29.81	6.16	53.52	35.97	74.00	54.00	X/H

- (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 $\[\circ\]$
- (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
- (8) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) , Final AV=PK-17.55

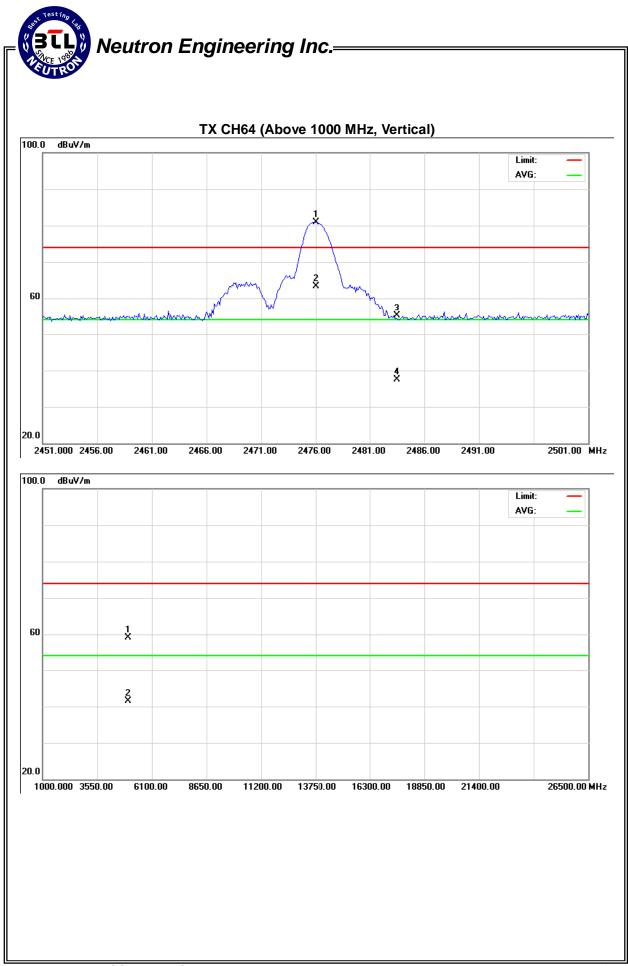




EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010hPa	Test Voltage :	DC 3.0V
Test Mode :	TX 2476MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2476.00	V	49.25	31.70	31.69	80.94	63.39			X/F
2483.50	V	23.38	5.83	31.70	55.08	37.53	74.00	54.00	X/E
4951.95	V	52.69	35.14	6.37	59.06	41.51	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of ${\Bbb F}$ Note $_{\Bbb I}$. 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
- (8) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) , Final AV=PK-17.55





EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	TX 2476MHz		

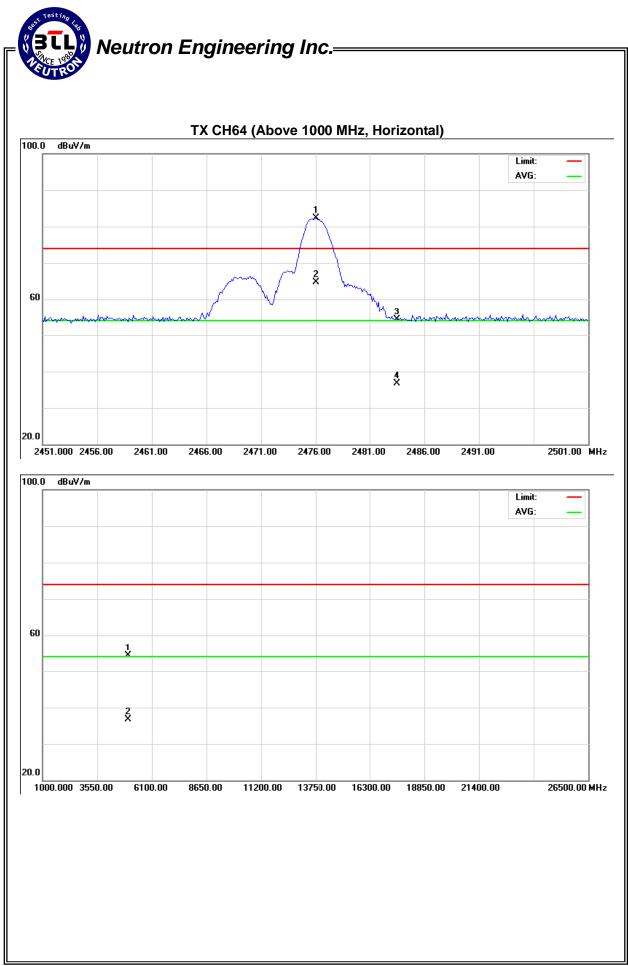
H	Freq.	Ant.Pol.	Rea	Reading		A	Act.		Limit		
			Peak	AV		Peak	AV	Peak	AV	Note	
((MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
24	476.00	Н	50.61	33.06	31.69	82.30	64.75			X/F	
24	483.50	Н	22.53	4.98	31.70	54.23	36.68	74.00	54.00	X/E	
49	952.08	Н	47.94	30.39	6.37	54.31	36.76	74.00	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 $\[\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
- (8) The average value of fundamental frequency is:
 Average = Peak value + 20log(Duty cycle) , Final AV=PK-17.55



5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section	Test Item	Frequency Range (MHz)	Result			
15.247 (a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS			

5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.27.2010

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

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	300 kHz
VB	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.2 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= 300KHz, VBW=300KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

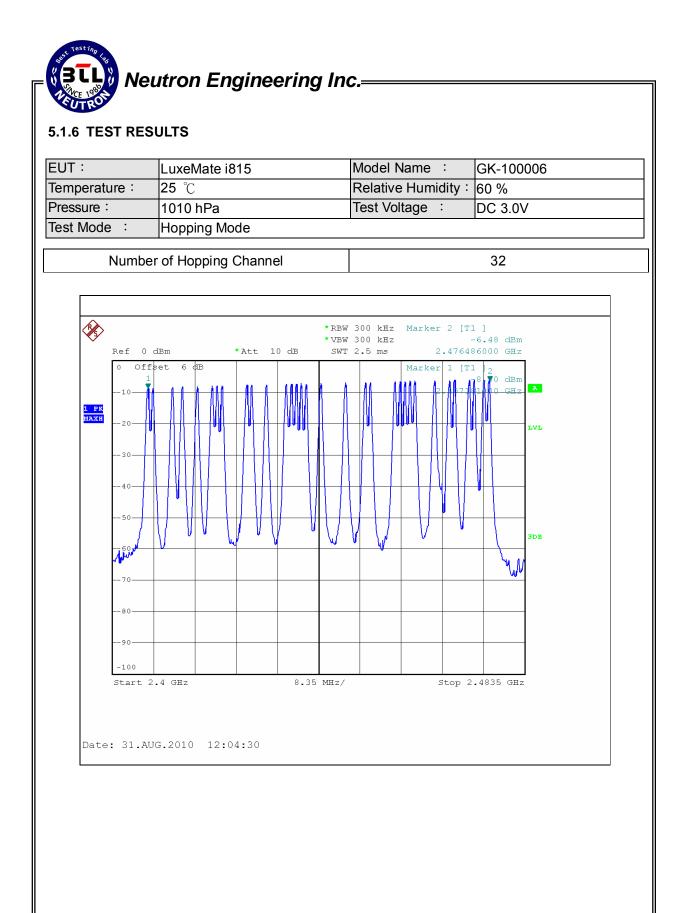
5.1.4 TEST SETUP

EUT

SPECTRUM ANALYZER

5.1.5 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.



STL Neutro

Neutron Engineering Inc.=

6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

6.1.1 MEASUREMENT INSTRUMENTS LIST

Ī	ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.27.2010

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

6.1.2. TEST PROCEDURES

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for packet transmitting.
- \breve{h} . Measure the maximum time duration of one single pulse.
- i. Dwell time = [spreading rate/32] x duty-cycle x 0.4 seconds

6.1.3. TEST SETUP LAYOUT



Spectrum Analayzer

6.1.4. TEST DEVIATION

There is no deviation with the original standard.

6.1.5. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting/Hopping mode.



6.1.6. TEST RESULTS

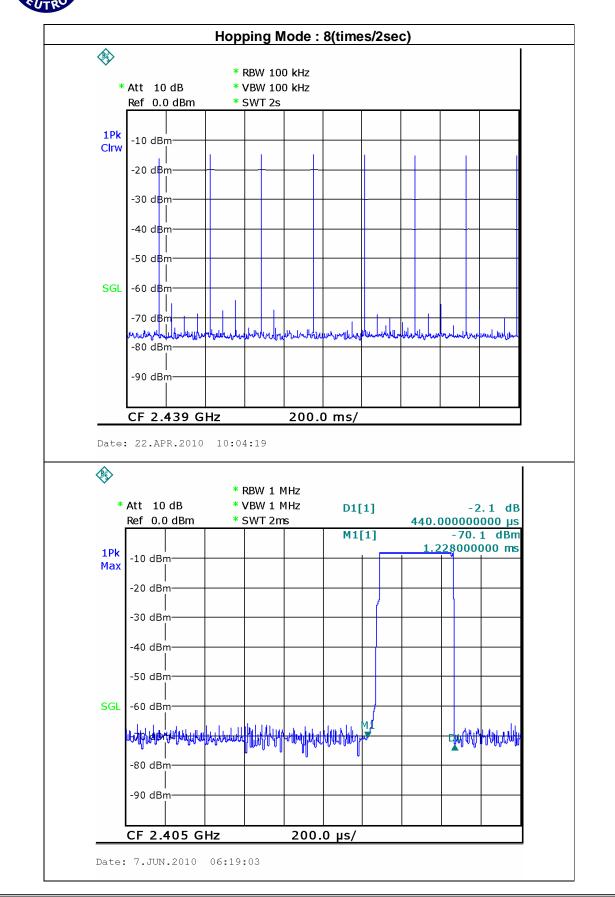
EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.0V
Test Mode :	Hopping Mode		

Mode	Number of transmission in a 12.8 (32Hopping*0.4)	Length of transmission time (msec)	Result (msec)	Limit (msec)
2439 MHz	(8/2) *12.8=51.2 times Note1	0.440	22.528	400

Note1: 8 times of occupied channels per 2 second

	Results
Measured cycle (sec)	32 CH*0.4=12.8
The total number of frequency-hopping per second	((8/2)*32)=128
The number of occupied channels per second	128/32=4(number/sec)
occupied time for each channel(1)	0.440ms
The total number of channels occupied within one cycle (2)	(8/2) *12.8=51.2 times
The average time of occupancy within one $cycle(1)^{*}(2)$	22.528msec
LIMIT (msec)	400msec







7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
ſ	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.27.2010

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

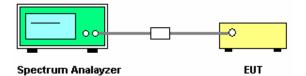
7.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

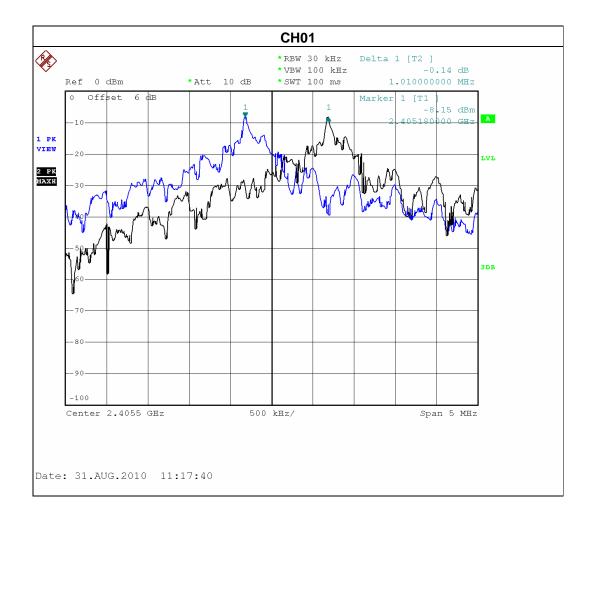


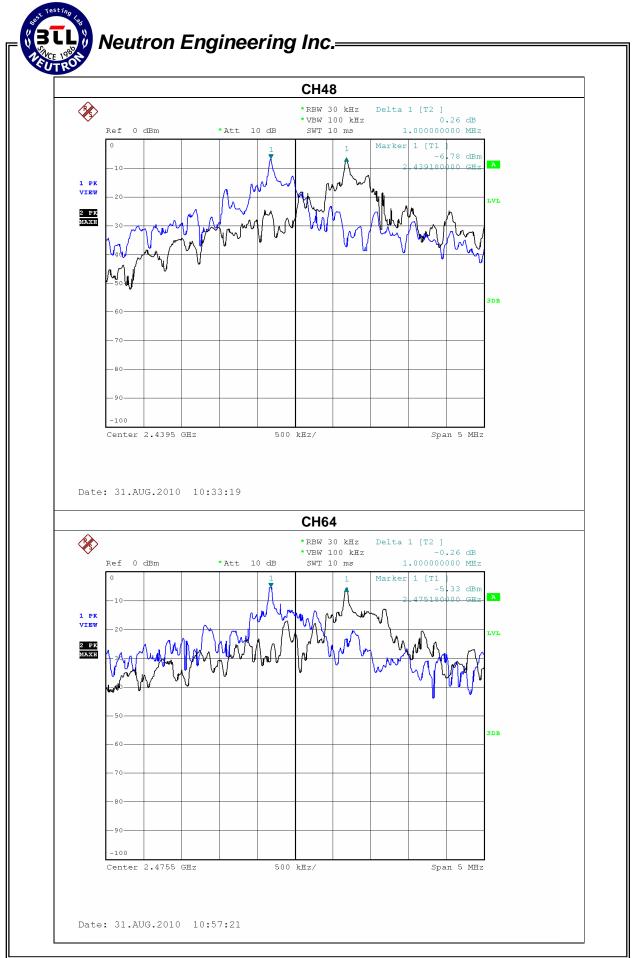
7.1.6 TEST RESULTS

EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	60%
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	CH01 / CH48/ CH64		

	Frequency	Ch. Separation (MHz)	20dB Bandwidth (MHz)	Result
ſ	2405 MHz	1	0.600	Complies
Ī	2439 MHz	1	0.980	Complies
Ī	2476 MHz	1	0.820	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth





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8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(2)	Bandwidth	<= 1 MHz (20dB bandwidth)	2400-2483.5	PASS	

8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Iter	n Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.27.2010

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.1.2 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= 10KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

SPECTRUM ANALYZER

8.1.5 EUT OPERATION CONDITIONS

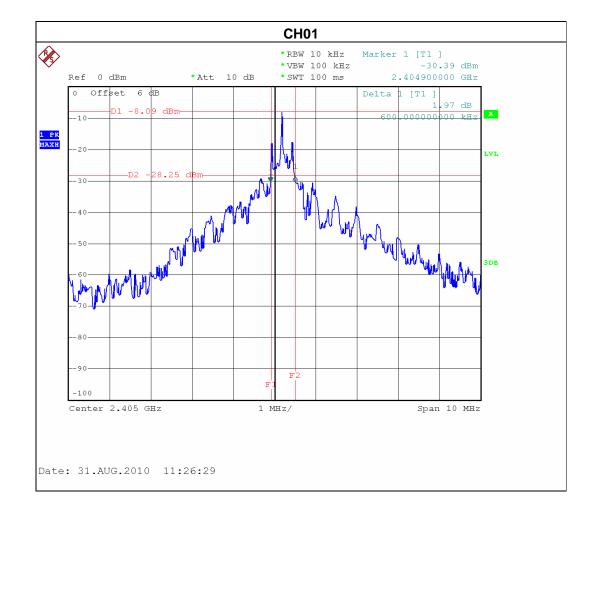
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

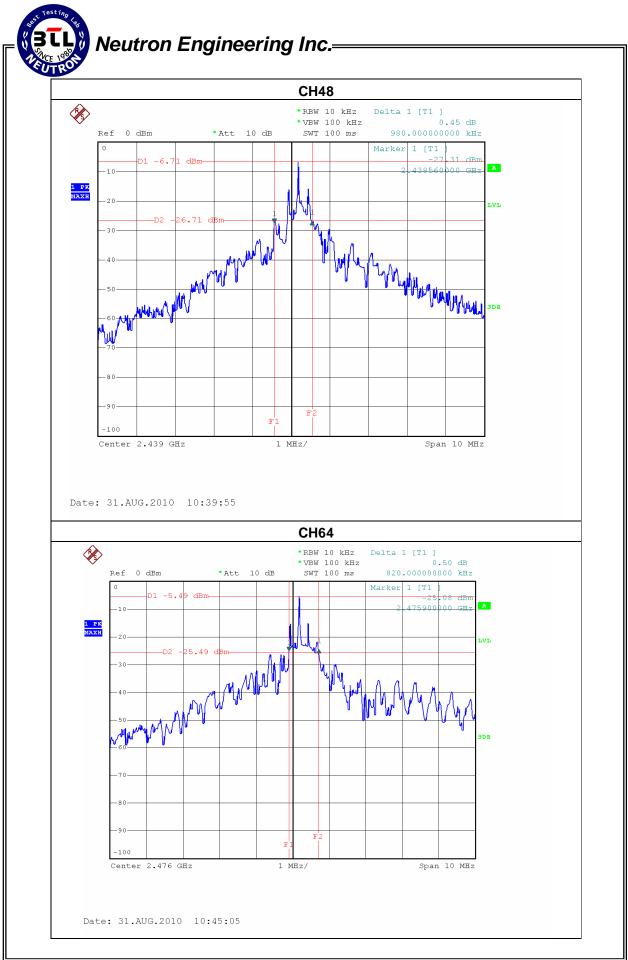


8.1.6 TEST RESULTS

EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	60%
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	CH01 / CH48/ CH64		

Frequency	20dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2405 MHz	0.600	<= 1MHz	PASS
2439 MHz	0.980	<= 1MHz	PASS
2476 MHz	0.820	<= 1MHz	PASS





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9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (b)(1)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS	

9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.27.2010

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

9.1.2 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= 1MHz, VBW= 1MHz, Sweep time = Auto.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.1.5 EUT OPERATION CONDITIONS

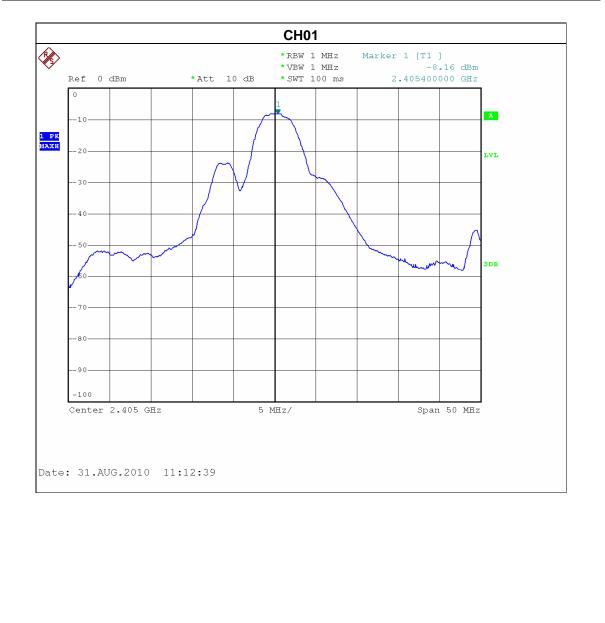
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

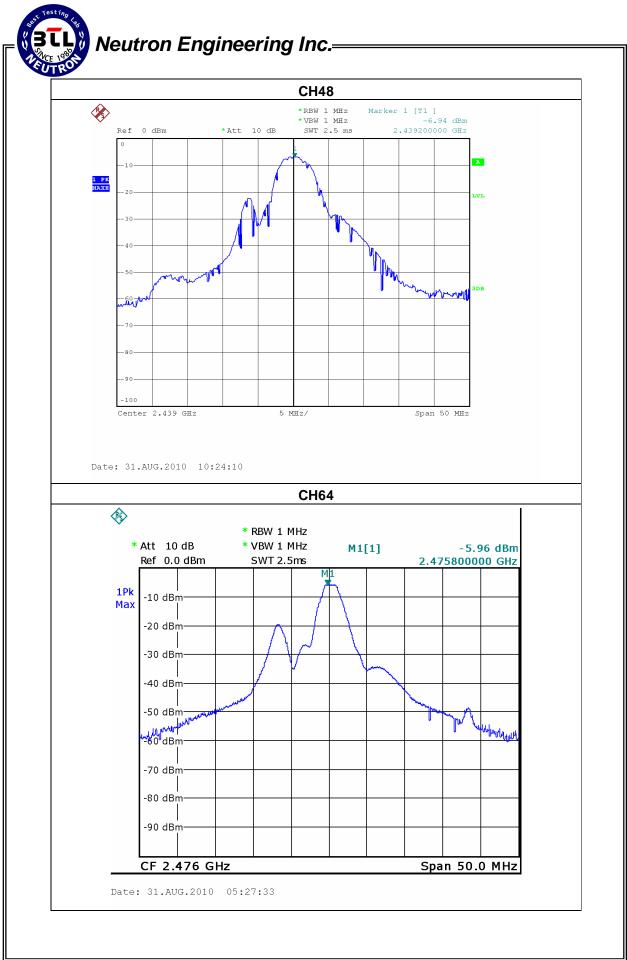


9.1.6 TEST RESULTS

EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	60%
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	CH01 / CH48/ CH64		

Test Channel	Frequency	Peak Output Power	LIMIT	LIMIT
Test onamer	(MHz)	(dBm)	(dBm)	(W)
CH01	2405	-8.16	30	1
CH48	2439	-6.94	30	1
CH64	2476	-5.96	30	1







10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 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

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

lt	em	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.27.2010

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

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting		
Attenuation	Auto		
Span Frequency	100 MHz		
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average		
RB / VB (other emission)	100 KHz /100 KHz for Peak		

10.1.2 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 = Auto.

10.1.3 DEVIATION FROM STANDARD

No deviation.

0.1.4 TEST SETUP	
EUT	SPECTRUM
	ANALYZER
1.5 EUT OPERATION CONDITION	NG
erating condition is specified in the f	d as the statements of 4.1.6 Unless otherwise a speci- follows during the testing.



10.1.6 TEST RESULTS

EUT :	LuxeMate i815	Model Name :	GK-100006
Temperature :	25 ℃	Relative Humidity :	60 %
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode : CH01 / CH64			

The max. radio frequency power in any 100kHzThe max. radio frequency power in any 100 kHzbandwidth outside the frequency bandbandwidth within the frequency band.

FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2312.60	-51.72	2483.50	-52.19		
Result					

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

