



FCC Part 15C Test Report

FCC ID: 2AMIZ-S1

Product Name:	Keyboard mouse Combo
Trademark:	SIIG
Model Name :	JK-WROR12-S1
Prepared For :	Dong Guan jiu Da Electronics Technology Co.,Ltd
Address :	3F, No.15, Yincheng 6th Road,Xiabian, Changan Town, Dongguan City, Guangdong Province, P.R. China.
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101, Yousong Road, Longhua New District, Shenzhen, China
Test Date:	Jun. 13 - Jun. 20, 2017
Date of Report :	Jun. 20, 2017
Report No.:	BCTC-FY170603398E



VERIFICATION OF COMPLIANCE

Applicant's name: **Dong Guan jiu Da Electronics Technology Co.,Ltd**

Address.....: 3F, No.15, Yincheng 6th Road,Xiabian, Changan Town,
Dongguan City, Guangdong Province, P.R. China.

Manufacture's Name: **Dong Guan jiu Da Electronics Technology Co.,Ltd**

Address.....: 3F, No.15, Yincheng 6th Road,Xiabian, Changan Town,
Dongguan City, Guangdong Province, P.R. China.

Product description

Product name.....: Keyboard mouse Combo

Trademark: SIIG

Model Name: JK-WROR12-S1

Standards: FCC Part15.249
ANSI C63.10-2013

This device described above has been tested by BCTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Result : **Pass**

Prepared by(Engineer): Eric Yang

Reviewer(Supervisor): Jade Yang

Approved(Manager): Carson Zhang

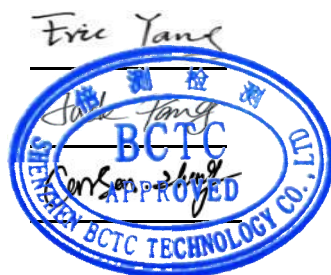




Table of Contents	Page
1 . SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	7
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	7
2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	8
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	9
3 . EMC EMISSION TEST	10
3.1 CONDUCTED EMISSION MEASUREMENT	10
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	10
3.1.2 TEST PROCEDURE	11
3.1.3 DEVIATION FROM TEST STANDARD	11
3.1.4 TEST SETUP	11
3.1.5 EUT OPERATING CONDITIONS	11
3.1.6 TEST RESULTS	11
3.2 RADIATED EMISSION MEASUREMENT	12
3.2.1 RADIATED EMISSION LIMITS	12
3.2.2 TEST PROCEDURE	13
3.2.3 DEVIATION FROM TEST STANDARD	13
3.2.4 TEST SETUP	14
3.2.5 EUT OPERATING CONDITIONS	15
3.2.6 TEST RESULTS	16
4 . BANDWIDTH TEST	20
4.1 APPLIED PROCEDURES / LIMIT	20
4.1.1 TEST PROCEDURE	20
4.1.2 DEVIATION FROM STANDARD	20
4.1.3 TEST SETUP	20
4.1.4 EUT OPERATION CONDITIONS	20
4.1.5 TEST RESULTS	21
5 . 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	24
5.1 DEVIATION FROM STANDARD	25
5.2 EUT OPERATION CONDITIONS	25



Table of Contents	Page
5.3 TEST RESULTS	25
6 . ANTENNA REQUIREMENT	28
6.1 STANDARD REQUIREMENT	28
6.2 EUT ANTENNA	28
7 . EUT TEST PHOTO	29
8 . EUT PHOTO	30



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207(a)	Conducted Emission	N/A	
15.209(a)&&15.249(a) &15.249(c)&15.205(a)	Fundamental &Radiated Spurious Emission Measurement	PASS	
15.215(c)	Bandwidth	PASS	
15.249(d)	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.:No.101,Yousong Road,Longhua New District, Shenzhen,China

FCC Registration No.:187086

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Keyboard mouse Combo	
Trade Name	SIIG	
Model Name	JK-WROR12-S1	
Serial Model	N/A	
Model Difference	N/A	
Product Description	Operation Frequency:	2408-2474MHz
	Modulation Type:	GFSK
	Number Of Channel	34 CH
	Antenna Designation:	Please see Note 3.
	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.	
Channel List	Please refer to the Note 2.	
Battery	DC 3V	
Connecting I/O Port(s)	Please refer to the User's Manual	
hardware version	-	
Software version	-	

Note:

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

2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2408	11	2428	19	2444
02	2410	12	2430	20	2446
03	2412	13	2432	21	2448
\	\	\	\	\	\
\	\	\	\	\	\
09	2424	17	2440	33	2472
10	2426	18	2442	34	2474

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
1	N/A	N/A	PCB Antenna	0dBi	



2.2 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 possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For All Mode	Description	Modulation Type
Mode 1	CH01	GFSK
Mode 2	CH17	
Mode 3	CH34	
Mode 4	Link mode	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

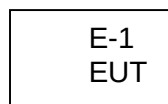
2.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

Frequency	2408 MHz	2440 MHz	2474 MHz
Channel	Low	Middle	High

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test





2.5 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.	Series No.	Note
E-1	Keyboard mouse Combo	SIIG	JK-WROR12-S1	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.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4407B	MY45108040	2016.08.27	2017.08.26
2	Test Receiver (9kHz-7GHz)	R&S	ESPI	101318	2016.08.27	2017.08.26
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB 9168	VULB91 68-438	2016.08.27	2017.08.26
4	Horn Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA9120D	1201	2016.09.03	2017.09.03
5	Horn Antenna (14GHz-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	2016.09.03	2017.09.03
6	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2016.08.27	2017.08.26
7	Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2016.08.27	2017.08.26
8	Amplifier (18GHz-40GHz)	SCHWARZBECK	BBV 9721	9721-205	2016.08.27	2017.08.26
9	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	00014	2016.09.03	2017.09.03
10	RF cables1 (9kHz-1GHz)	R&S	R203	R20X	2016.08.27	2017.08.26
11	RF cables2 (1GHz-40GHz)	R&S	R204	R21X	2016.08.27	2017.08.26
12	Antenna connector	Florida RF Labs	N/A	RF 01#	2016.08.27	2017.08.26
13	Power Metter	ANRITSU	ML2487A	6K00001568	2016.08.27	2017.08.26
14	Power Sensor (AV)	ANRITSU	ML2491A	030989	2016.08.27	2017.08.26
15	Signal Analyzer 9kHz-26.5GHz	Agilent	N9010A	MY48030494	2016.08.27	2017.08.26
16	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	2016.08.27	2017.08.26
17	D.C. Power Supply	LongWei	PS-305D	010964729	2016.08.27	2017.08.26

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESCI	1166.5950K03-1011 65-ha	2016.08.27	2017.08.26
2	LISN	SCHWARZBECK	NSLK8127	8127739	2016.08.27	2017.08.26
3	LISN	R&S	NSLK8126	8126487	2016.08.27	2017.08.26
4	RF cables	R&S	R204	R20X	2016.08.27	2017.08.26
5	Attenuator	R&S	ESH3-Z2	143206	2016.08.27	2017.08.26



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas -peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	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.

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

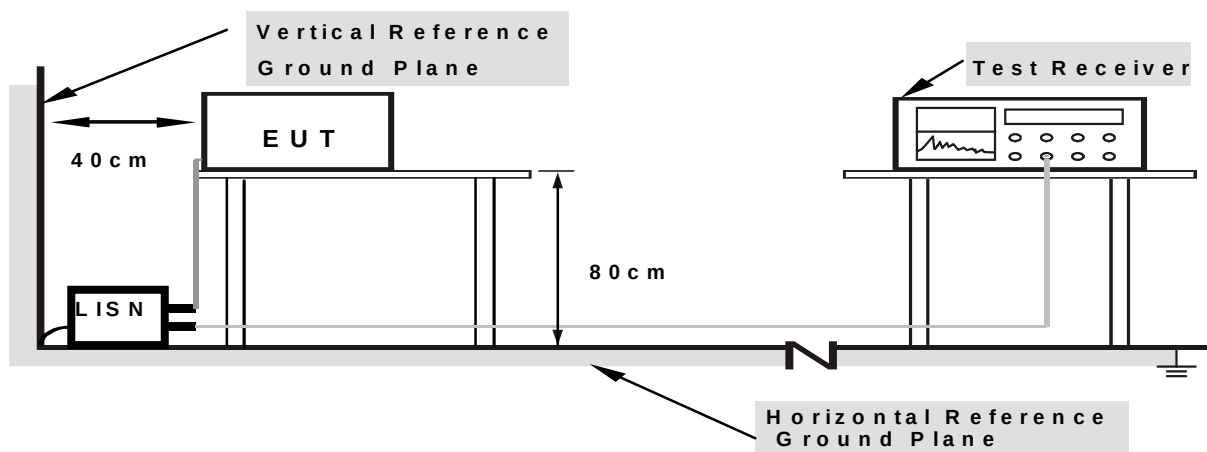
3.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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 cm from other units and other metal planes

3.1.5 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.

3.1.6 TEST RESULTS

NOTE: This EUT is powered by the battery only, this test item is not applicable.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 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 (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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	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).

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



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, 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

3.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; above 1GHz, the height was 1.5m, 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

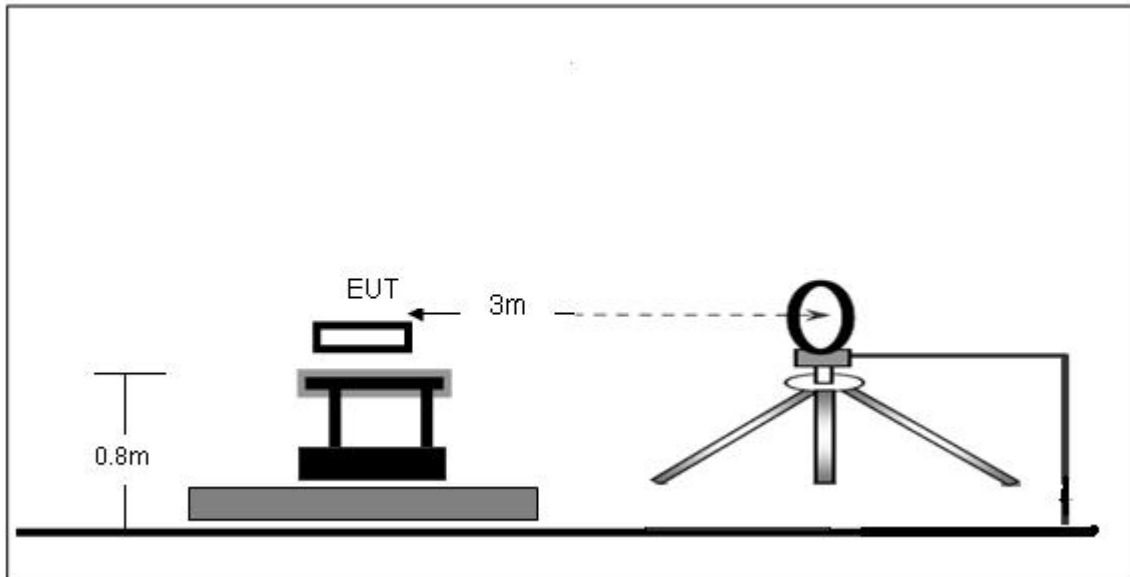
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

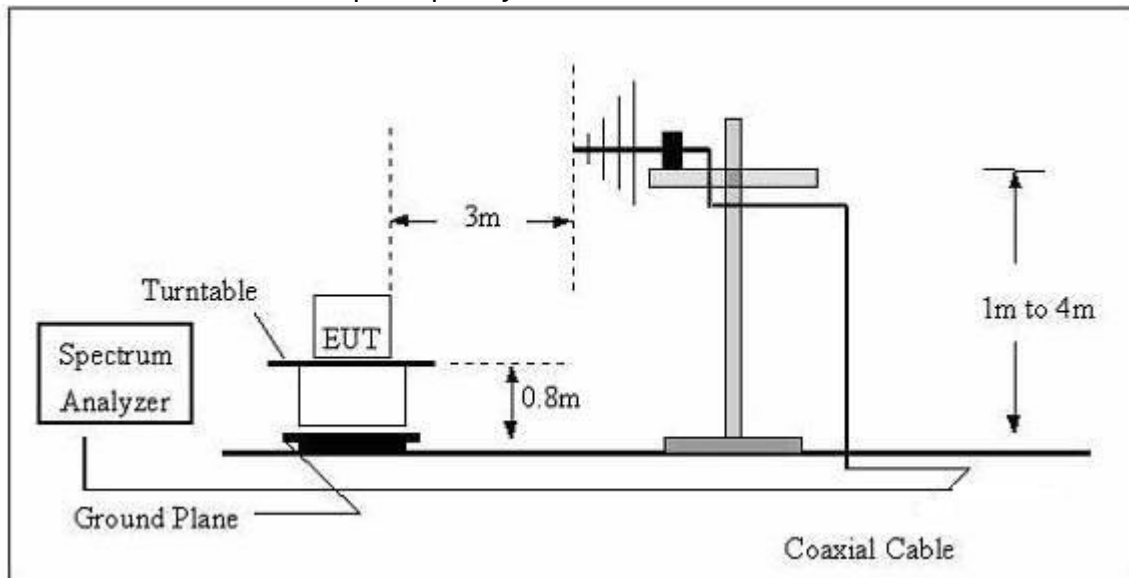
No deviation

3.2.4 TEST SETUP

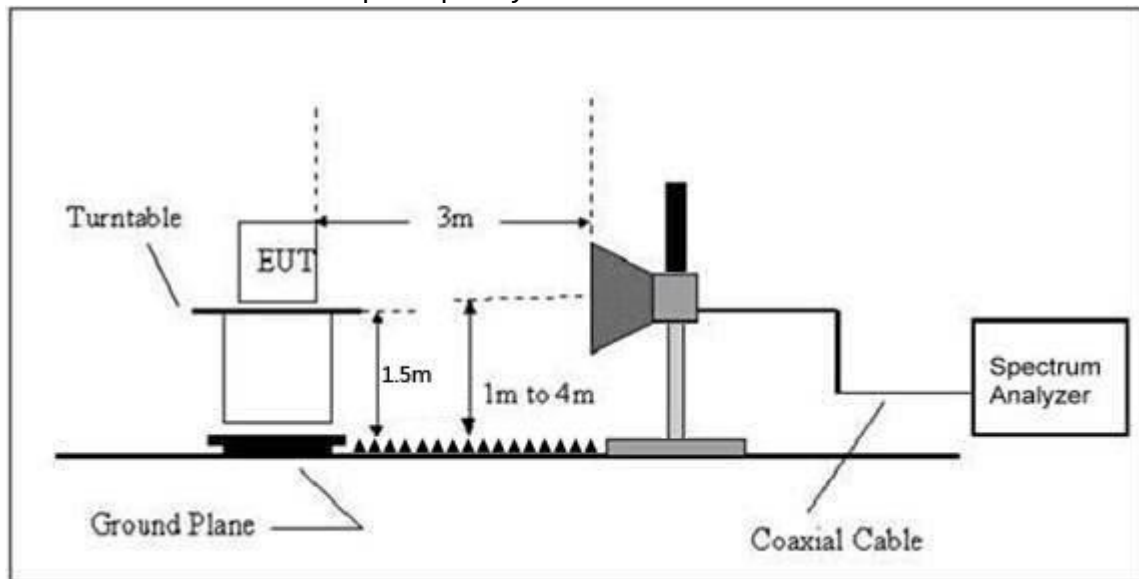
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

Radiated Spurious Emission (Below 30MHz)

Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Polarization :	---
Test Voltage :	DC 3V		
Test Mode :	Mode 4		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

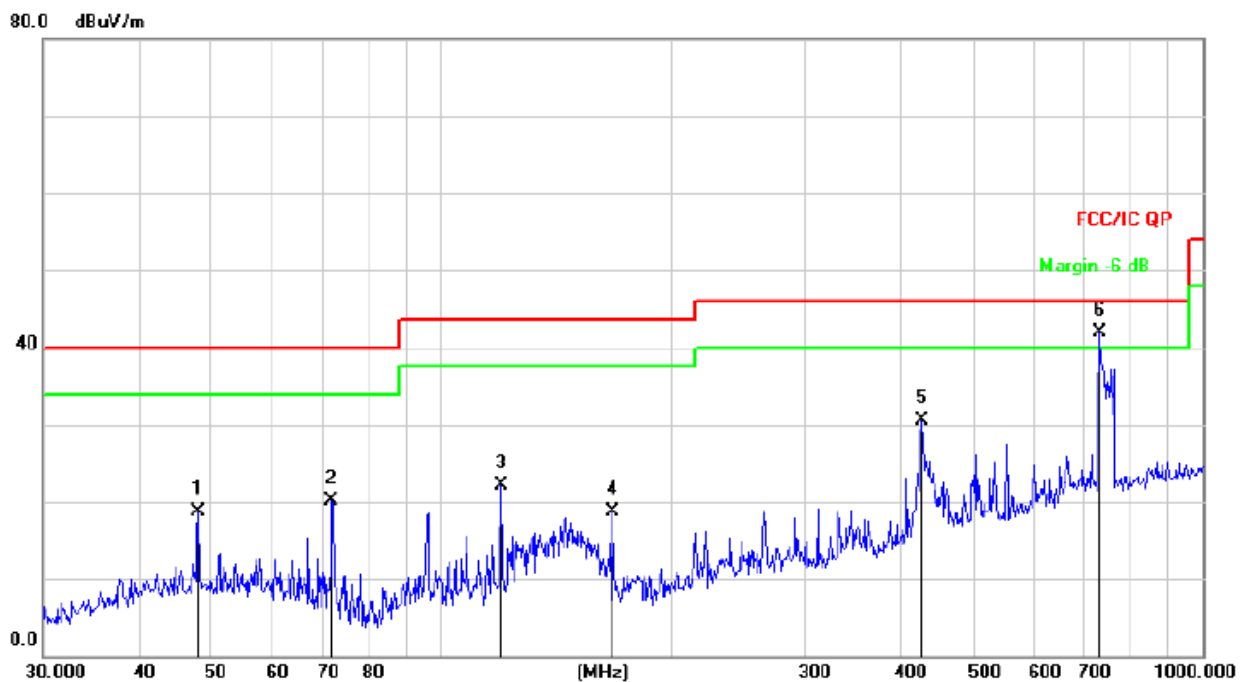
Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



Radiated Spurious Emission (Between 30MHz – 1GHz)

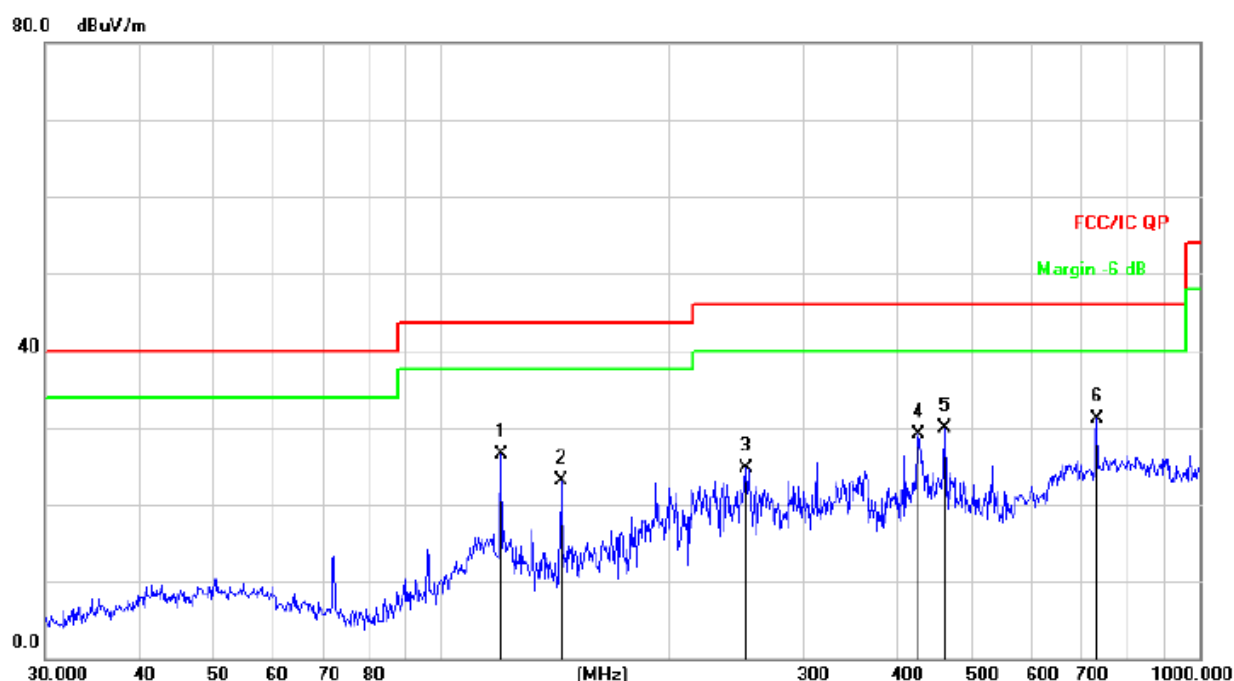
Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3V		
Test Mode : (Worst)	Mode 4		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.9939	33.33	-14.72	18.61	40.00	-21.39	QP
2		71.8319	39.65	-19.62	20.03	40.00	-19.97	QP
3		119.8555	40.21	-18.07	22.14	43.50	-21.36	QP
4		167.8242	37.33	-18.57	18.76	43.50	-24.74	QP
5		428.0192	39.16	-8.70	30.46	46.00	-15.54	QP
6	*	731.9202	44.22	-2.24	41.98	46.00	-4.02	QP



Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3V		
Test Mode : (Worst)	Mode 4		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		119.8555	44.60	-18.07	26.53	43.50	-16.97	QP
2		143.8292	43.07	-19.89	23.18	43.50	-20.32	QP
3		252.0627	38.46	-13.69	24.77	46.00	-21.23	QP
4		426.5210	37.82	-8.73	29.09	46.00	-16.91	QP
5		460.7271	38.22	-8.23	29.99	46.00	-16.01	QP
6	*	731.9202	33.26	-2.24	31.02	46.00	-14.98	QP


Radiated Spurious Emission (1GHz to 10th harmonics)

GFSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel 2408MHz									
V	2408.00	100.65	38.06	7.42	20.15	90.16	114.00	-23.84	PK
V	2408.00	88.54	38.06	7.42	20.15	78.05	94.00	-15.95	AV
V	4816.00	52.45	38.53	7.78	23.25	44.95	74.00	-29.05	PK
V	4816.00	41.58	38.53	7.78	23.25	34.08	54.00	-19.92	AV
V	17850.00	42.74	38.75	10.36	26.57	40.92	74.00	-33.08	PK
H	2408.00	101.25	38.06	7.42	20.15	90.76	114.00	-23.24	PK
H	2408.00	89.43	38.06	7.42	20.15	78.94	94.00	-15.06	AV
H	4816.00	50.32	38.53	7.78	23.25	42.82	74.00	-31.18	PK
H	4816.00	43.47	38.53	7.78	23.25	35.97	54.00	-18.03	AV
H	17850.00	44.05	38.75	10.36	26.57	42.23	74.00	-31.77	PK
Middle Channel 2440MHz									
V	2440.00	99.68	38.11	7.44	20.36	89.37	114.00	-24.63	PK
V	2440.00	87.96	38.11	7.44	20.36	77.65	94.00	-16.35	AV
V	4880.00	52.91	38.65	7.80	23.61	45.67	74.00	-28.33	PK
V	4880.00	44.31	38.65	7.80	23.61	37.07	54.00	-16.93	AV
V	17850.00	43.36	38.75	10.36	26.57	41.54	74.00	-32.46	PK
H	2440.00	101.21	38.11	7.44	20.36	90.90	114.00	-23.10	PK
H	2440.00	88.55	38.11	7.44	20.36	78.24	94.00	-15.76	AV
H	4880.00	51.32	38.65	7.80	23.61	44.08	74.00	-29.92	PK
H	4880.00	42.54	38.65	7.80	23.61	35.30	54.00	-18.70	AV
H	17850.00	44.37	38.75	10.36	26.57	42.55	74.00	-31.45	PK
High Channel 2474MHz									
V	2474.00	101.44	38.17	7.47	20.51	91.25	114.00	-22.75	PK
V	2474.00	90.16	38.17	7.47	20.51	79.97	94.00	-14.03	AV
V	4948.00	52.45	38.69	7.83	23.83	45.42	74.00	-28.58	PK
V	4948.00	43.26	38.69	7.83	23.83	36.23	54.00	-17.77	AV
V	17850.00	45.18	38.75	10.36	26.57	43.36	74.00	-30.64	PK
H	2474.00	99.01	38.17	7.47	20.51	88.82	114.00	-25.18	PK
H	2474.00	86.38	38.17	7.47	20.51	76.19	94.00	-17.81	AV
H	4948.00	52.23	38.69	7.83	23.83	45.20	74.00	-28.80	PK
H	4948.00	43.73	38.69	7.83	23.83	36.70	54.00	-17.30	AV
H	17850.00	43.49	38.75	10.36	26.57	41.67	74.00	-32.33	PK
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



4. BANDWIDTH TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.249) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.249	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	100KHz
VB	$\geq$ RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

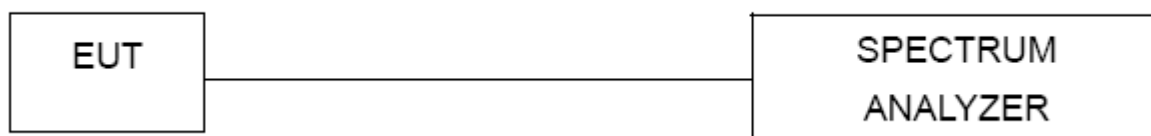
4.1.1 TEST PROCEDURE

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

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



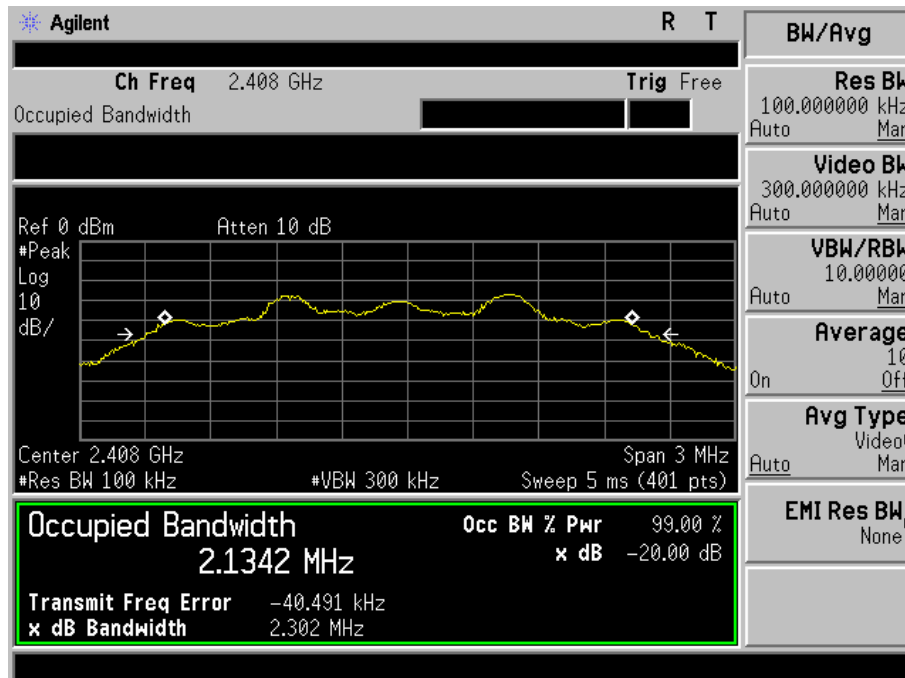
4.1.5 TEST RESULTS

EUT :	Keyboard mouse Combo	Model Name :	JK-WROR12-S1
Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	CH01 / CH17 /CH34		

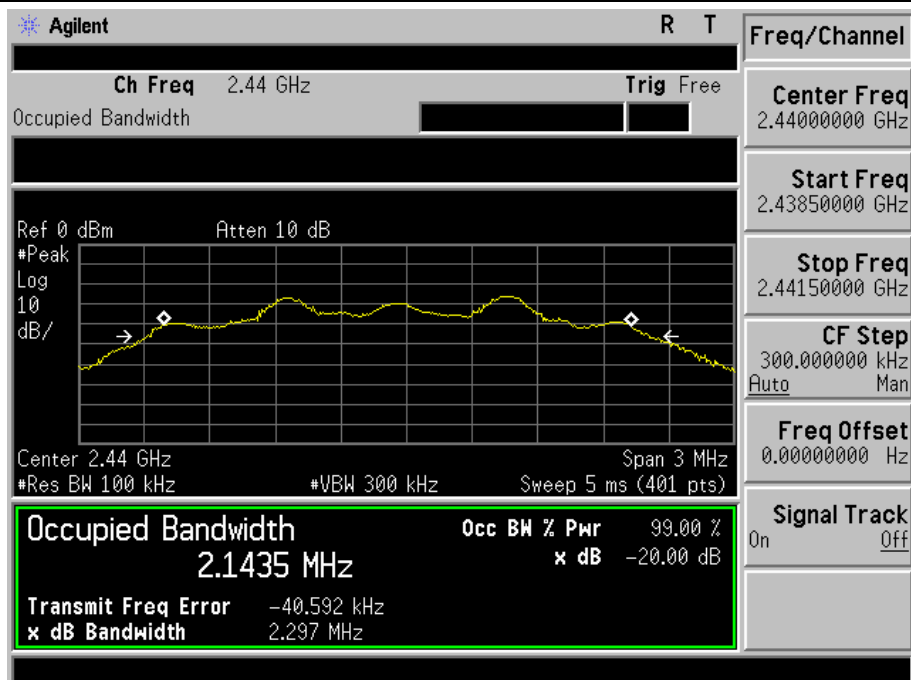
	Frequency	20dB Bandwidth (kHz)	Result
GFSK	2408 MHz	2302	PASS
	2440 MHz	2297	PASS
	2474 MHz	2302	PASS

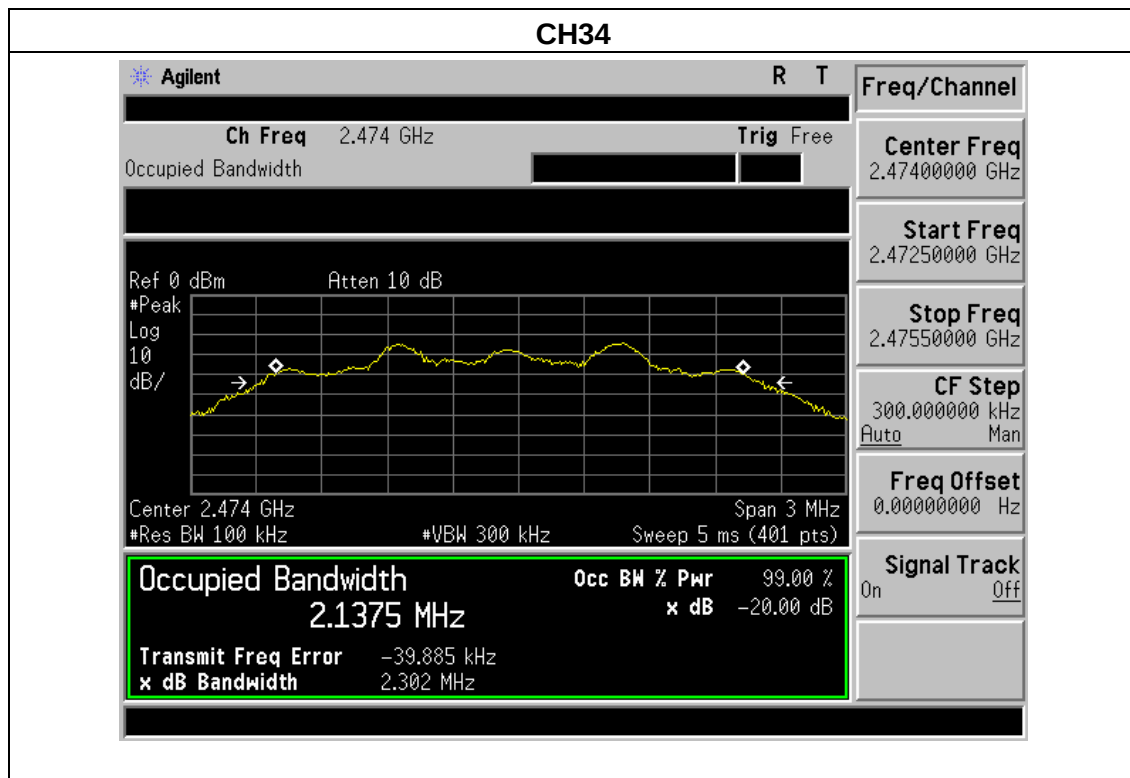


CH01



CH17







5. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)(c)

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



5.1 DEVIATION FROM STANDARD

No deviation.

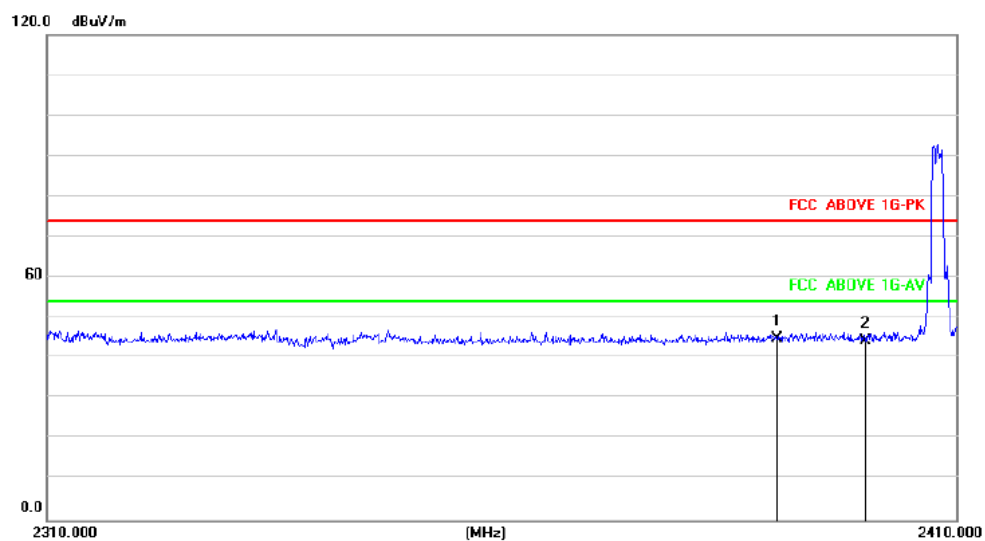
5.2 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.3 TEST RESULTS

Temperature :	25 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3V
Test Mode :	CH01/ CH34		

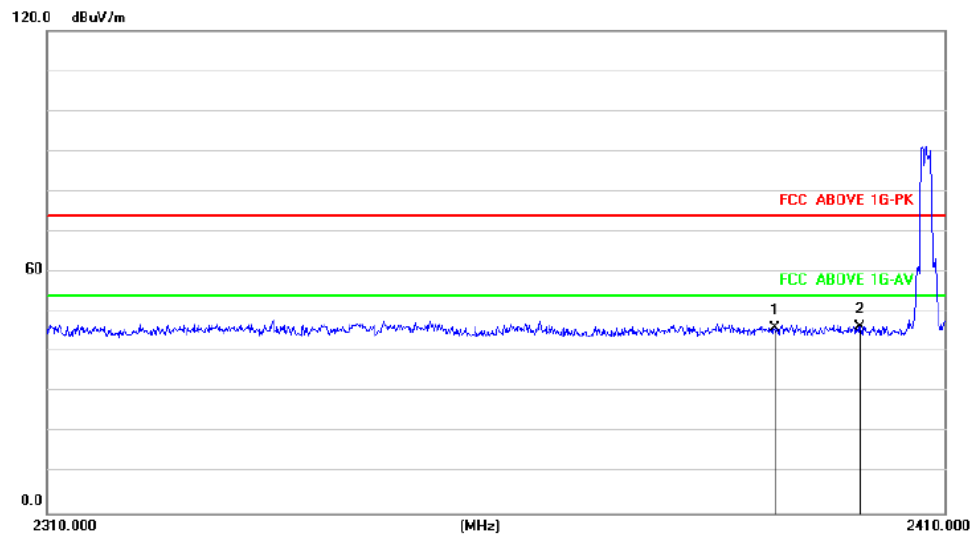
2408MHz Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB	dBuV/m	dB/m	dB
1	*	2390.000	48.06	-3.18	44.88	74.00	-29.12 peak
2		2400.000	47.50	-3.24	44.26	74.00	-29.74 peak

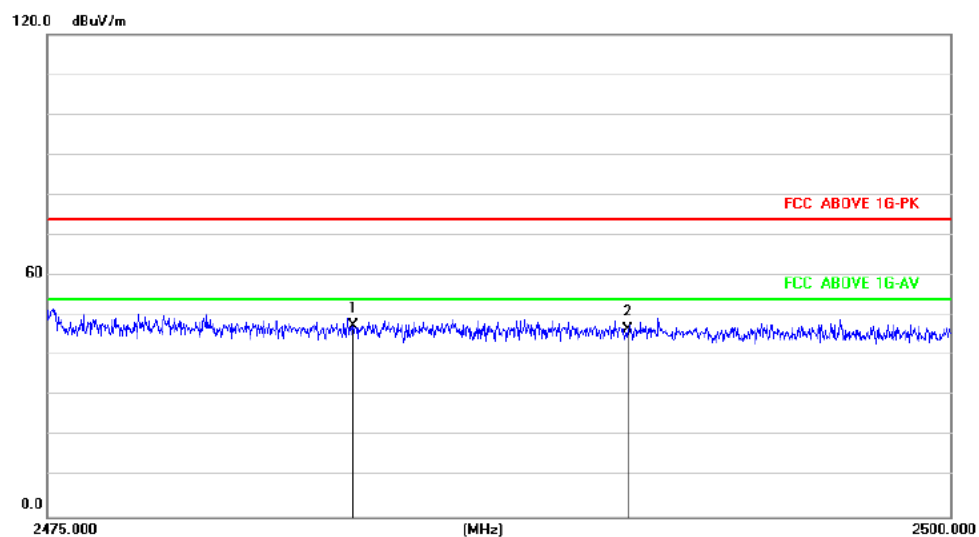


2408MHz Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBm	dB	Detector
1		2390.800	49.12	-3.19	45.93	74.00	-28.07	peak
2	*	2400.500	49.72	-3.24	46.48	74.00	-27.52	peak

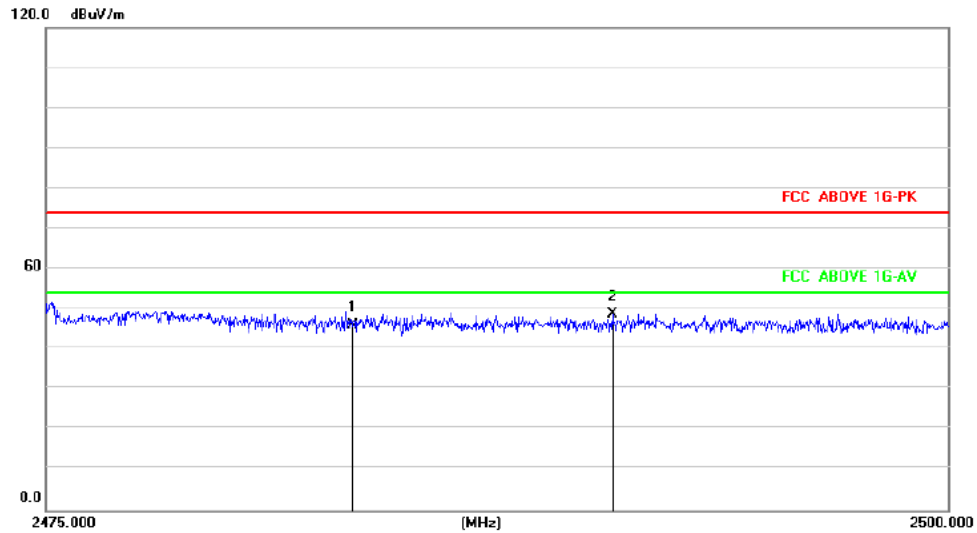
2474MHz Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBm	dB	Detector
1	*	2483.450	51.20	-3.53	47.67	74.00	-26.33	peak
2		2491.050	50.07	-3.54	46.53	74.00	-27.47	peak



2474MHz Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBm	dB Detector
1		2483.500	49.60	-3.53	46.07	74.00	-27.93 peak
2	*	2490.675	52.15	-3.54	48.61	74.00	-25.39 peak

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

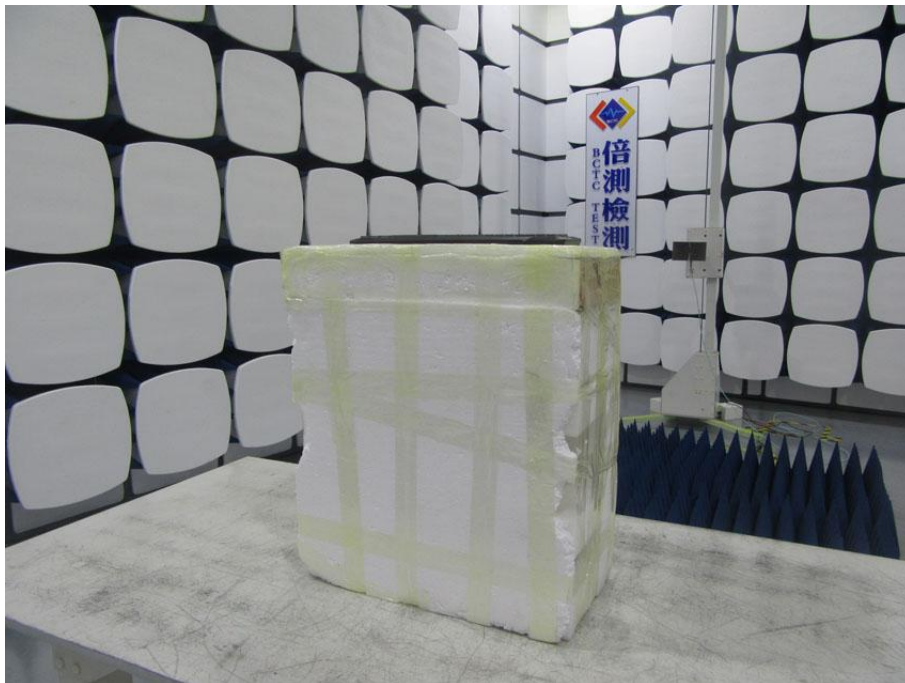
6.2 EUT ANTENNA

The EUT antenna is Integrated (PCB) antenna. It complies with the standard requirement.



7. EUT TEST PHOTO

Radiated Measurement Photos





8. EUT PHOTO



***** END OF REPORT *****