FCC Test Report

Report No.: AGC02303140802FE01

FCC ID : ZZX672M

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: BP MOUSE GLV WHT

BRAND NAME : Disney

MODEL NAME : 760672

CLIENT : Camino International Limited

DATE OF ISSUE : Sep.11, 2014

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep.11, 2014	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Camino International Limited	
Flat A, 3rd Floor, International Industrial Building, 501-503 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong	
Camino Industrial (Huizhou)Co.Ltd	
Lidong Industial Estate, Jiutan, Yuanzhou, Boluo. Huizhou, Guangdong, China	
BP MOUSE GLV WHT (Mouse)	
Disney	
760672	
Aug. 28, 2014 to Sep. 11, 2014	
None	
Normal	
AGCRT-US-BR/RF (2013-03-01)	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Prepared By

Matt Zhang Sep.11, 2014

Checked By

Kidd Yang Sep.11, 2014

Authorized By

Solger Zhang Sep.11, 2014

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "BP MOUSE GLV WHT" designed as a "RF Product". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

	<u> </u>
Operation Frequency	2.403 GHz to 2.477GHz
RF Output Power	0dBm(Max)
Modulation	GFSK
Number of channels	16
Hardware Version	N/A
Software Version	N/A
Antenna Designation	PCB Antenna
Antenna Gain	2 dBi
Power Supply	DC3V by battery

2.2. TABLE OF CARRIER FREQUENCYS

Channel	Frequency	Channel	Frequency
1	2403	9	2442
2	2407	10	2447
3	2412	11	2452
4	2417	12	2457
5	2422	13	2462
6	2427	14	2467
7	2432	15	2472
8	2437	16	2477

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3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM Configuration:

EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.215(c)	20 dB Bandwidth	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.209 §15.249(a)	Radiated Emission	Compliant
§15.249(d)	Out of Band Emission	Compliant
§15.207(a)	Conducted Emission	N/A

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6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.

ALL TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Probe	R&S	NRP-Z23	100323	07/25/2014	07/24/2015
RF attenuator	N/A	RFA20db	68	N/A	N/A
Spectrum Analyzer	Agilent	E4440A	US41421290	07/25/2014	07/24/2015
Amplifier	EM	EM30180	0607030	02/27/2014	02/26/2015
Horn Antenna	EM	EM-AH-10180	67	04/19/2014	04/18/2015
Horn Antenna	A.H. Systems Inc.	SAS-574		07/25/2014	07/24/2015
EMI Test Receiver	Rohde & Schwarz	ESCI	100694	07/25/2014	07/24/2015
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	26	06/06/2014	06/05/2015
Loop Antenna	Daze	ZN30900N	SEL0097	07/25/2014	07/24/2015
Isolation Transformer	LETEAC	LTBK		07/25/2014	07/24/2015
Radiation Cable 1	Sat	RE1	R003	06/04/2014	06/03/2015
Radiation Cable 2	Sat	RE2	R002	06/04/2014	06/03/2015
Conduction Cable	Sat	CE1	C001	06/04/2014	06/03/2015

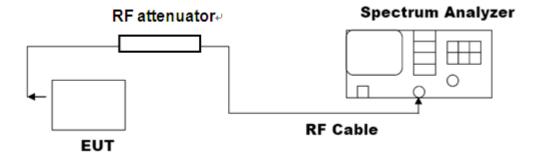
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7. 20DB BANDWIDTH

7.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. RBW=100kHz, VBW ≥ RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



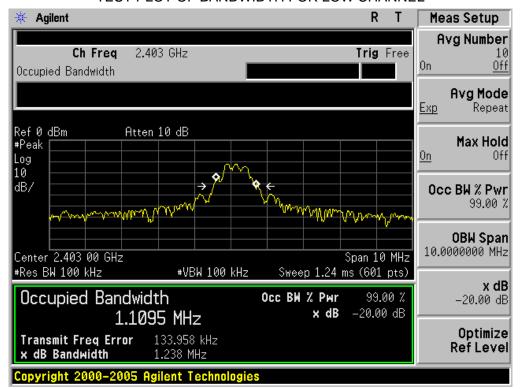
7.3. LIMITS AND MEASUREMENT RESULTS

Channel	Channel Frequency(MHz)	20dB Bandwidth(MHz)
Low	2403	1.238
Middle	2442	1.231
High	2477	1.183

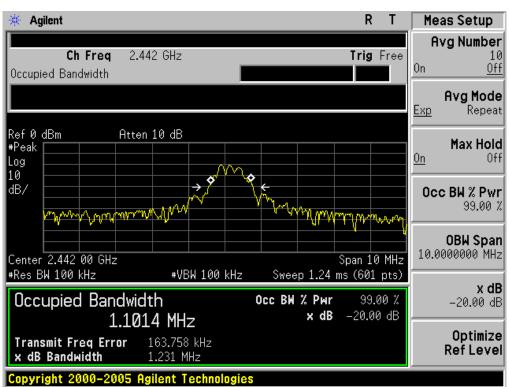
According to FCC 15.215(c),must be designed to ensure that the 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

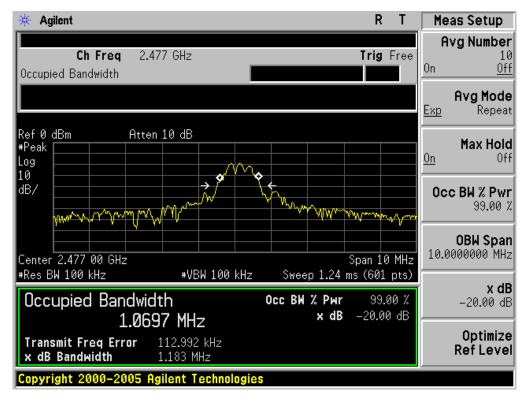


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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8. RADIATED EMISSION

8.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

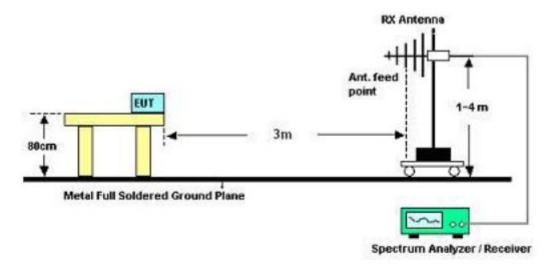
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
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

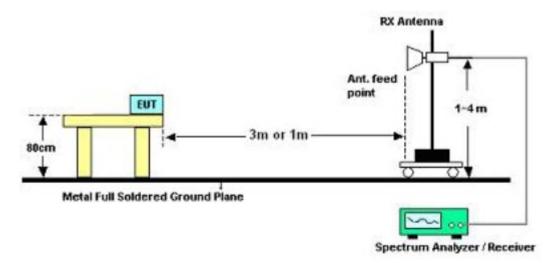
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8.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



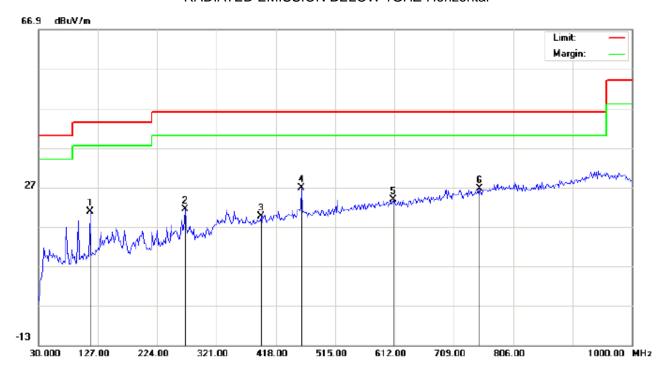
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8.3. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ-Horizontal



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: BP MOUSE GLV WHT

M/N: 760672

Mode: Low Channel TX

Note: Mouse

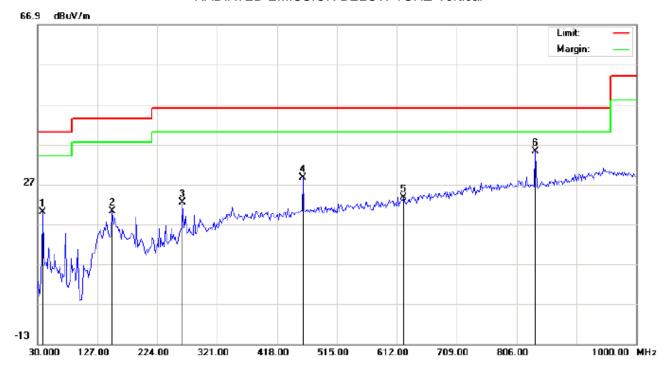
Polarization: Horizontal Temperature: 26
Power: Humidity: 60 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		114.0667	9.35	11.45	20.80	43.50	-22.70	peak			
2		269.2667	6.84	14.48	21.32	46.00	-24.68	peak			
3		393.7500	0.64	19.03	19.67	46.00	-26.33	peak			
4	*	460.0333	6.18	20.70	26.88	46.00	-19.12	peak			
5		610.3832	0.07	23.75	23.82	46.00	-22.18	peak			
6		751.0333	-0.11	26.64	26.53	46.00	-19.47	peak			

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RADIATED EMISSION BELOW 1GHZ-Vertical



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: BP MOUSE GLV WHT

M/N: 760672

Mode: Low Channel TX

Note: Mouse

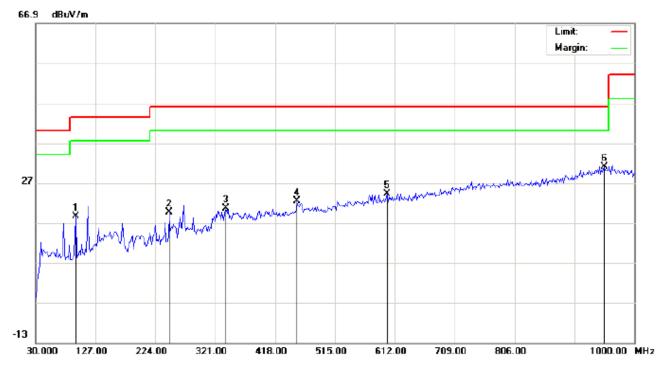
Polarization:	Vertical	Temperature: 2	6
Power:		Humidity: 60 %	5

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		38.0833	13.65	6.39	20.04	40.00	-19.96	peak			
2		151.2500	4.86	15.27	20.13	43.50	-23.37	peak			
3		264.4166	8.15	14.34	22.49	46.00	-23.51	peak			
4		460.0333	8.00	20.70	28.70	46.00	-17.30	peak			
5		623.3167	0.30	23.25	23.55	46.00	-22.45	peak			
6	*	836.7167	7.85	27.31	35.16	46.00	-10.84	peak			

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RADIATED EMISSION BELOW 1GHZ-Horizontal



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: BP MOUSE GLV WHT

M/N: 760672

Mode: Middle Channel TX

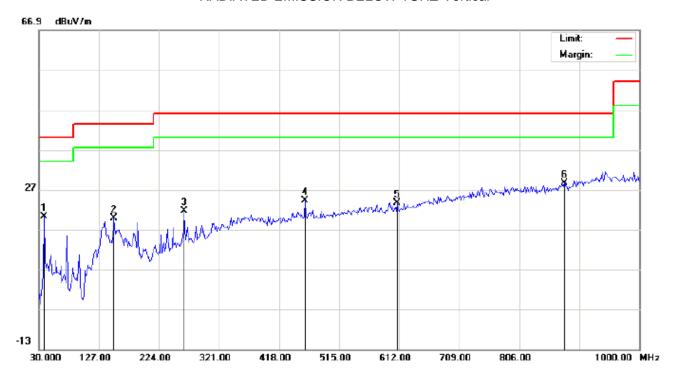
Note: Mouse

Polarization:	Horizontal	Temperature: 26
Power:		Humidity: 60 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		94.6667	8.81	9.89	18.70	43.50	-24.80	peak			
2		246.6333	5.93	13.77	19.70	46.00	-26.30	peak			
3		338.7833	2.59	17.99	20.58	46.00	-25.42	peak			
4		453.5667	1.70	20.63	22.33	46.00	-23.67	peak			
5		599.0667	0.53	23.71	24.24	46.00	-21.76	peak		·	
6	*	951.5000	1.01	29.99	31.00	46.00	-15.00	peak			

RADIATED EMISSION BELOW 1GHZ-Vertical



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: BP MOUSE GLV WHT

M/N: 760672

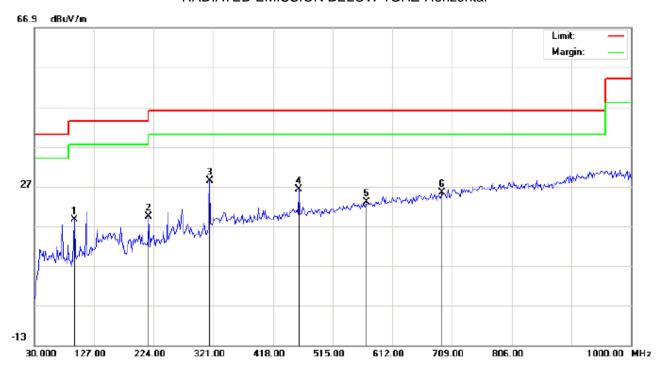
Mode: Middle Channel TX

Note: Mouse

Polarization: Vertical	Temperature: 26
Power:	Humidity: 60 %
Distance: 3m	

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		38.0833	13.75	6.39	20.14	40.00	-19.86	peak			
2		151.2500	4.48	15.27	19.75	43.50	-23.75	peak			
3		264.4166	7.35	14.34	21.69	46.00	-24.31	peak			
4		460.0333	3.58	20.70	24.28	46.00	-21.72	peak			
5		608.7667	0.62	22.93	23.55	46.00	-22.45	peak			
6	*	878.7500	0.46	28.06	28.52	46.00	-17.48	peak			

RADIATED EMISSION BELOW 1GHZ-Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: BP MOUSE GLV WHT Distance: 3m

M/N: 760672

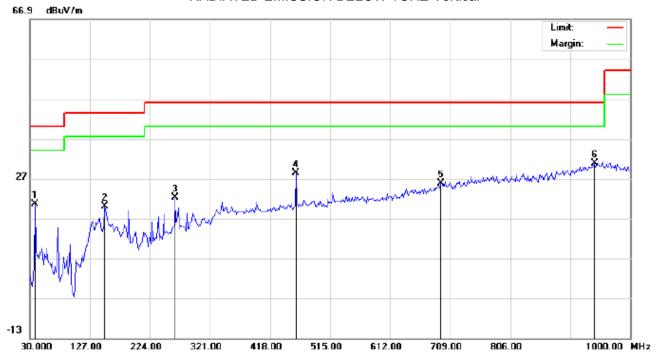
Mode: High Channel TX

Note: Mouse

No.	Mk	Freq.	Reading	Factor	Measurement	t Limit C	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		94.6667	8.70	9.89	18.59	43.50	-24.91	peak			
2		215.9167	6.74	12.60	19.34	43.50	-24.16	peak			
3	*	314.5333	11.96	16.38	28.34	46.00	-17.66	peak			
4		460.0333	5.51	20.70	26.21	46.00	-19.79	peak			
5		569.9667	-0.07	22.98	22.91	46.00	-23.09	peak			
6		692.8333	0.45	25.00	25.45	46.00	-20.55	peak			

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RADIATED EMISSION BELOW 1GHZ-Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: BP MOUSE GLV WHT Distance: 3m

M/N: 760672

Mode: High Channel TX

Note: Mouse

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		38.0833	14.20	6.39	20.59	40.00	-19.41	peak			
2		151.2500	4.65	15.27	19.92	43.50	-23.58	peak			
3		264.4166	7.78	14.34	22.12	46.00	-23.88	peak			
4		460.0333	7.74	20.70	28.44	46.00	-17.56	peak			
5		694.4500	0.79	25.04	25.83	46.00	-20.17	peak			
6	*	941.8000	1.01	29.77	30.78	46.00	-15.22	peak		·	

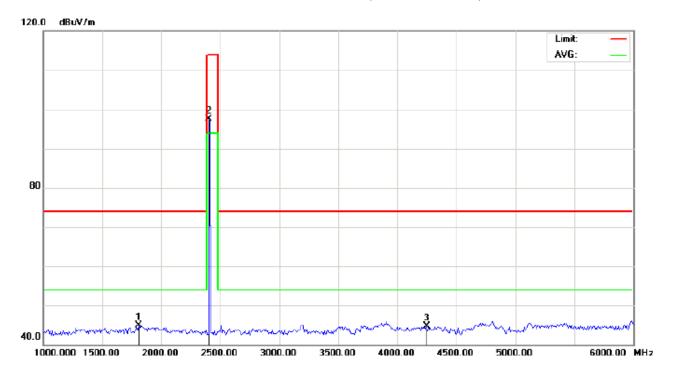
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) -Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC part 15.249 ClassB 3M Radiation Power: Humidity: 60 %

EUT: BP MOUSE GLV WHT Distance: 3m

M/N: 760672

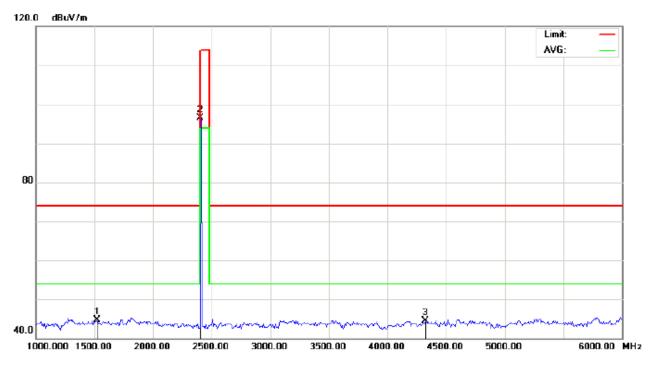
Mode: Low Channel TX

Note: Mouse

No.	Freq.	Reading	Factor	Measurement(PK)	Measurement(AV)	Limit(PK)	Limit(AV)	Over(PK)	Over(AV)
No.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB
1	1808.333	10.72	34.16	44.88	33.36	74	54	-29.12	-20.64
2	2403.000	60.22	37.23	97.45	85.47	114	94	-16.55	-8.53
3	4250.000	44.77	1.12	45.89	34.49	74	54	-28.11	-19.51

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) -Vertical



Site: site #1 Limit: FCC part 15.249 ClassB 3M Radiation

Polarization: Vertical

Temperature: 26

EUT: BP MOUSE GLV WHT

Power:

Humidity: 60 %

M/N: 760672

Distance: 3m

Mode: Low Channel TX

Note: Mouse

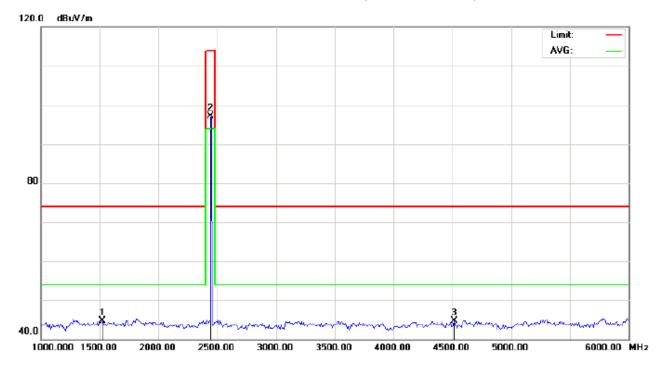
	ı								
	Freq.	Reading	Factor	Measurement(PK)	Measurement(AV)	Limit(PK)	Limit(AV)	Over(PK)	Over(AV)
No.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB
1	1525.000	11.83	32.87	44.70	33.42	74	54	-29.30	-20.58
2	2403.000	59.22	37.23	95.45	83.78	114	94	-17.55	-10.22
3	4325.000	44.53	1.17	45.70	34.26	74	54	-28.30	-19.74

Temperature: 26

Humidity: 60 %

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) –Horizontal



Site: site #1 Polarization: Horizontal
Limit: FCC part 15.249 ClassB 3M Radiation Power:

EUT: BP MOUSE GLV WHT

M/N: 760672

Mode: Middle Channel TX

Note: Mouse

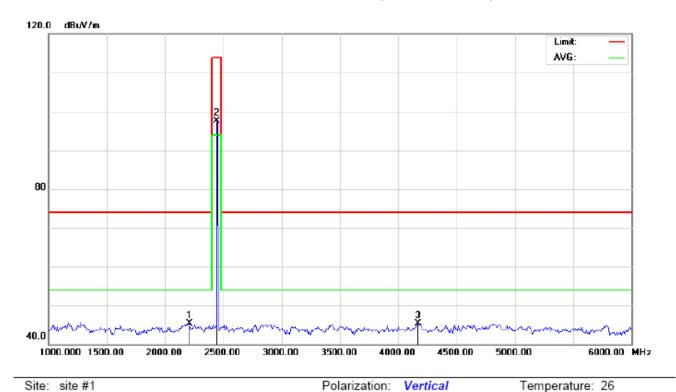
	Freq.	Reading	Factor	Measurement(PK)	Measurement(AV)	Limit(PK)	Limit(AV)	Over(PK)	Over(AV)
No.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB
1	1525.000	11.83	32.87	44.70	33.28	74	54	-29.30	-20.72
2	2442.000	59.68	37.39	97.07	85.61	114	94	-16.93	-8.39
3	4516.667	44.73	1.11	45.84	34.34	74	54	-28.16	-19.66

Distance: 3m

Humidity: 60 %

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) -Vertical



Site: site #1 Limit: FCC part 15.249 ClassB 3M Radiation

EUT: BP MOUSE GLV WHT

M/N: 760672

Mode: Middle Channel TX

Note: Mouse

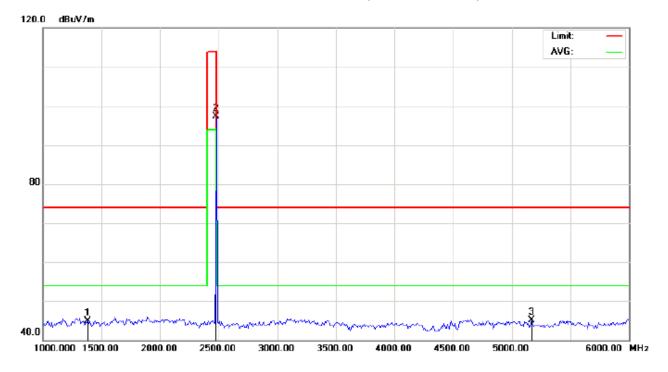
	Freq.	Reading	Factor	Measurement(PK)	Measurement(AV)	Limit(PK)	Limit(AV)	Over(PK)	Over(AV)
No.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB
1	2208.333	8.67	36.58	45.25	34.55	74	54	-28.75	-19.45
2	2442.000	60.18	37.39	97.57	85.23	114	94	-16.43	-8.77
3	4166 667	45 30	1 12	46 51	35 31	74	54	-27 49	-18 69

Power:

Distance: 3m

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) –Horizontal



Site: site #1 Limit: FCC part 15.249 ClassB 3M Radiation

CITIL TOO PAIL 15.245 Classis SW Radiation

EUT: BP MOUSE GLV WHT

M/N: 760672

Mode: High Channel TX

Note: Mouse

Polarization:	Horizontal	l emperature:	26
Power:		Humidity: 60	%

Distance: 3m

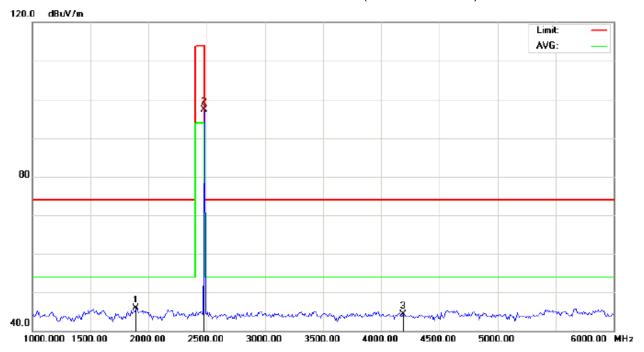
No.	Freq.	Reading	Factor	Measurement(PK)	Measurement(AV)	Limit(PK)	Limit(AV)	Over(PK)	Over(AV)
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB
1	1383.333	13.27	31.69	44.96	33.53	74	54	-29.04	-20.47
2	2477.000	59.83	37.53	97.36	85.18	114	94	-16.64	-8.82
3	5166.667	45.16	1.14	46.30	35.19	74	54	-27.70	-18.81

Temperature: 26

Humidity: 60 %

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) -Vertical



Site: site #1

Limit: FCC part 15.249 ClassB 3M Radiation

EUT: BP MOUSE GLV WHT

M/N: 760672

Mode: High Channel TX

Note: Mouse

_					T	1				
		Freq.	Reading	Factor	Measurement(PK)	Measurement(AV)	Limit(PK)	Limit(AV)	Over(PK)	Over(AV)
	No.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB
	1	1891.667	11.25	34.58	45.83	34.26	74	54	-28.17	-19.74
	2	2477.000	59.83	37.53	97.36	85.43	114	94	-16.64	-8.57
	3	4191.667	44.30	1.16	45.46	34.12	74	54	-28.54	-19.88

Power:

Distance: 3m

Polarization: Vertical

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

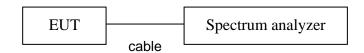
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9. BAND EDGE EMISSION

9.1. MEASUREMENT PROCEDURE

As the conducted emission test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mart the higher-lever emission for comparing with the FCC rules.

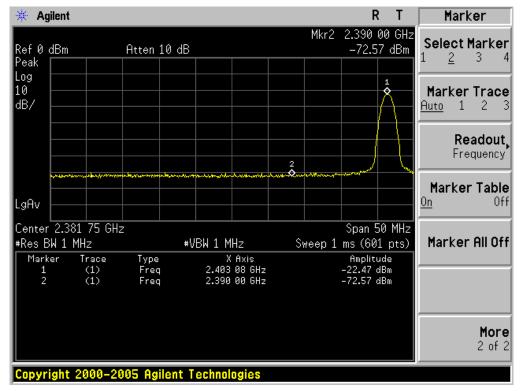
9.2. TEST SET-UP



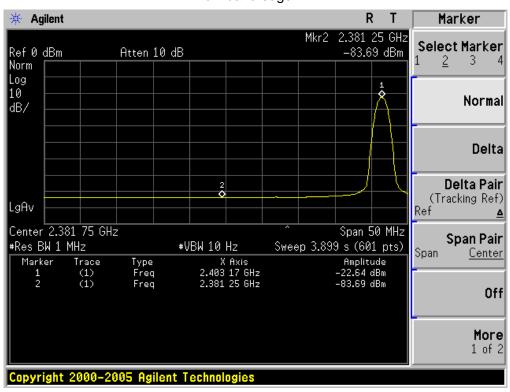
9.3 TEST RESULT

According to part 15.249(d). The conducted edge emissions are shall be attenuated by at least 50 dB below the level of the fundamental. Please refer to the test plots below.

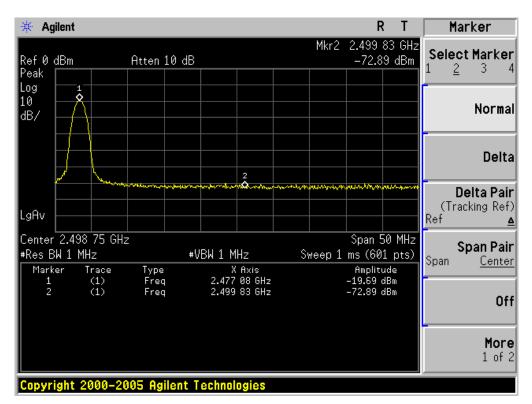
Low band edge-PK



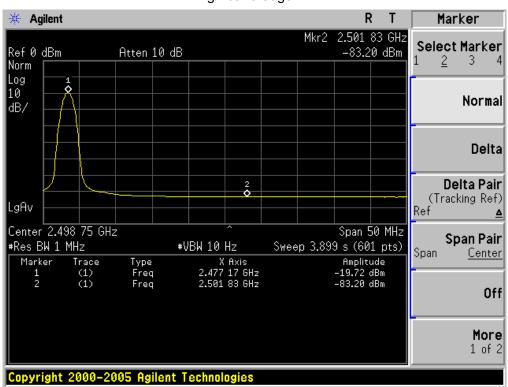
Low band edge-AV



High band edge-PK



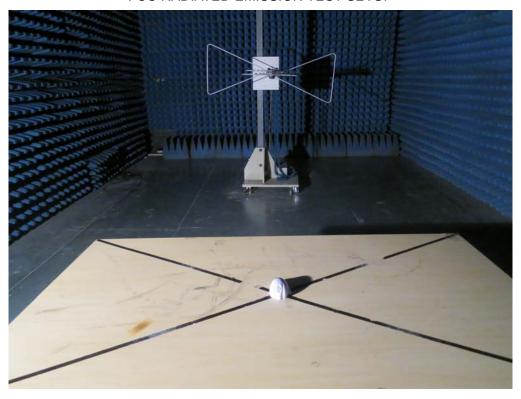
High band edge-AV



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



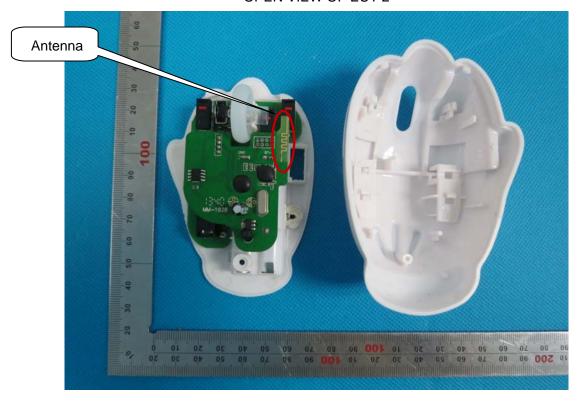
RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1



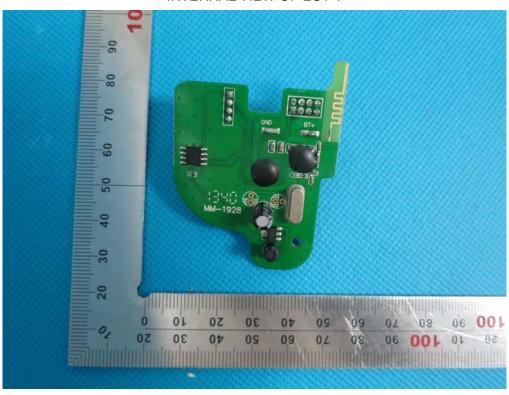
OPEN VIEW OF EUT-2



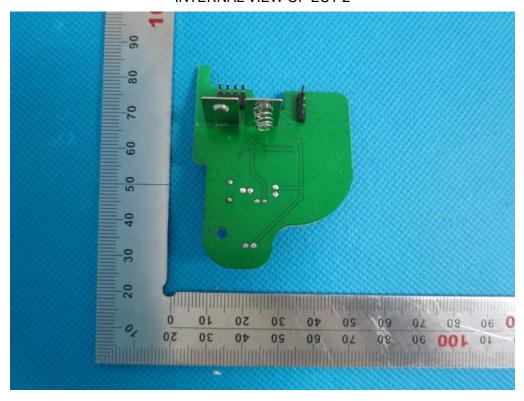
OPEN VIEW OF EUT-3



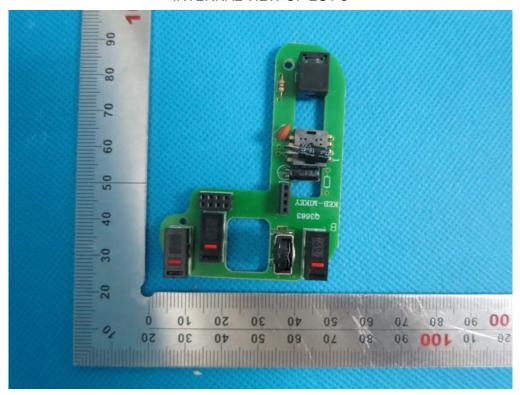
INTERNAL VIEW OF EUT-1



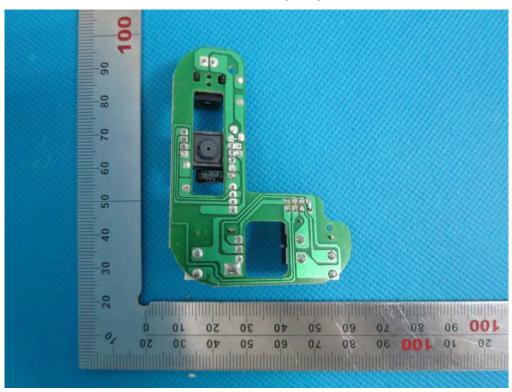
INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----