Report No.: TW2104141E Page 19 of 36

Date: 2021-04-21

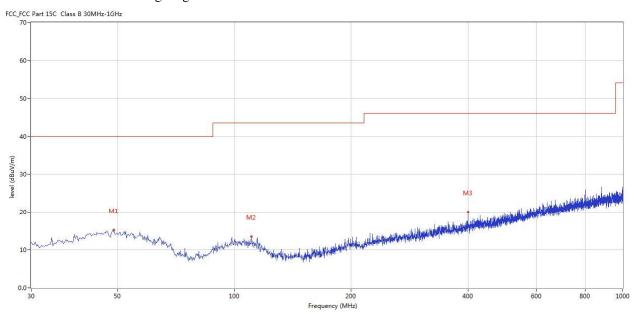


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Tab l e (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	48.910	15.35	-11.21	40.0	-24.65	Peak	18.00	100	Horizontal	Pass
2	110.732	13.53	-13.64	43.5	-29.97	Peak	53.00	100	Horizontal	Pass
3	399.963	20.00	-8.57	46.0	-26.00	Peak	321.00	100	Horizonta l	Pass

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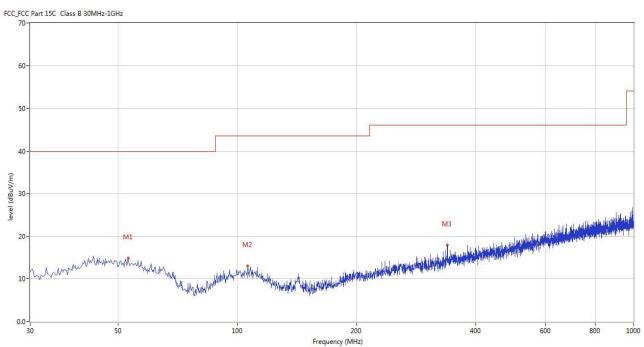


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	53.032	14.89	-11.50	40.0	-25.11	Peak	2.00	100	Vertical	Pass
2	106.126	13.01	-13.32	43.5	-30.49	Peak	73.00	100	Vertical	Pass
3	339.110	17.99	-9.78	46.0	-28.01	Peak	34.00	100	Vertical	Pass

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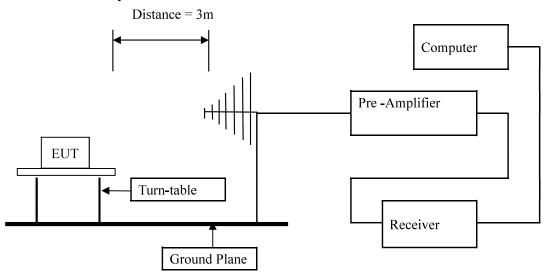


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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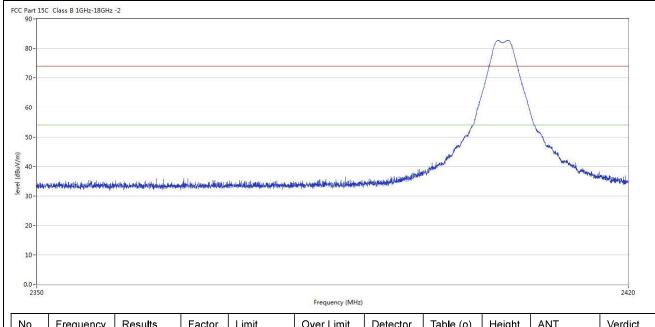
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7.6 Test Result

Product:	Wireless Mouse	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		-



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2400.663	50.73	-3.57	74.0	-23.27	Peak	360.00	100	Horizontal	Pass
3	2389.095	35.75	-3.53	74.0	-38.25	Peak	20.00	100	Horizontal	Pass

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Product:			Wire	less Mouse		Detect	tor		Vertical		
Mode			Keeping Transmitting		ing	Test Voltage		DC3.0V			
Temperature			24 deg. C,			Humid	lity	ty 56% RH			
Test Result:				Pass							
Part 15C	Class B 1GHz-18GHz	-2				•	•				
90-											
80-											
70-											
								\bigwedge			
60-											
- 1											
F0											
50-							/				
50-							أمنيوا		•		
40-	sife and his of one of the other	one of the state o	ovanský krátne výbo de pre	المعادرة والمعادرة و	and extended to the state of th	et kine dythoconoxian ydrefoetol	and the second second		an a said and the	amabilis filis assistand	
	add a stable and a second stable as the	राकेनारोत्तान् विकास के के त्या के विकास	يورية عالم معالم المارية المار	ekurthalka dekugaritu esikha	and state of the delication of the latest days	elikira. Aşilda cada gaja a sikasiyati	لمرشوش مشرعه بدينا والمادا		and a second second little second	amabili, ish qipishaa	
40-	iffer things of the second supplies the	त्रकार के के के किया के किया के के किया के किय	annasih-filosooling-filosooni	de interestado de la constitución	on for this distance of the single-based	illigen des Landers par historial	and the second second		an de sand de sand le california de sand le	erratively approxi	
30-	infa-sallipää qul-saain, imfälleräda	રાધાના કોરોનું, મેળાવીલા તો પ્લાન ને પ્લાન કે પોલાનો લેવો	amasihida sain, Asir da m	r h astitud kanadatikus siidelee	nadustaidik dikisimpasses salesi daa	differe di Lacado por differenti	and the second second		han had an high and the file of the state of	emanify to promote and an analysis of	
40 - 30 -	the things of the section of the sec	rear plant, ha ejes stera za da kan da kan da ka	कामकांत्रेत्रेत्रेत्रः त्यांकरूप्येष्ट वीक्षण	dagidh al lan dhibangaich is an idd an	adirətik dilineçen ideisleri	illigen der Lenner og en belægte det et	and the second second		han de and de philosophic suid he de and de and	errational agriculture	
30- 20- 10-	addin a thirliphic and a single party and a single	राक्षकर होताहे, नेपाक्षकर के बात २०१४ में वहाँ के होते	enastiki te nimen kita da su	r d astiland kanada kalanda	ung dipitat dijik nd dikasang napara taluga dipan	والمراجعة المراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة و	understand and a second		en e en		
40- 30- 20-	and the analysis of the contract of the contra	ત્રમાન કરિયાનું, તેમાં મુંદર હો માત્ર હતા કેરને મેળકો પ્રેસ્કૃષ્ટિ	overside followed in profit shapes	dust the flow in the sugar state of the stat	of the first of th		anti-desire de la constitución d		on the survey large distribution and the survey and	2420	
30- 20- 10-	Frequency	Results	Factor	durthelinistensisteristen			Table (o)	Height	ANT		
40- 30- 20- 10- 0.0- 2350	Frequency (MHz)	Results (dBuV/m)	Factor (dB)		Frequency (MHz)		Table (o)	Height (cm)		2420	
40- 30- 20- 10- 0.0- 2350				Limit	Frequency (MHz) Over Limit		Table (o)	_		2420	

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Pr	roduct:		Wirel	less Mouse		Polarit	у		Horizontal	
ľ	Mode		Keeping	g Transmitti	ng	Test Volt	age		DC3.0V	
Tem	nperature		24 deg. C,			Humidi	ity	56% RH		
Test	t Result:		Pass							
C Part 15C	Class B 1GHz-18GHz	-2								-11
80-				M1						
70-										
					-					
50-					1					
1	hipper to make the state of the	alian de de la companya de la compa			Jun May 1	M2	and the second second	and depth control of the property.	gothelica, the southern the contribution of the light of	h. Hajiddadyn 21 dpariod da
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30-	High the same of the complete species to be the	alleg jarden properties de la company de			San January 1			and a layin market in many many	Hikkeine Missiller Henri Seleja s	hitajiki diran daga ka
30-	Herbert de man al fréde mobiles en para en la best	ghofisha kiring karanga			Frequency (MHz)			and a desilvent of the analysis and	gaireine dha dha dha dha na dhigh a	2500
40- 20- 10-	Frequency	Results	Factor	Limit	Frequency (MHz) Over Limit	2483.5	Table (o)	Height	ANT	
30 - 20 - 10 - 2460			Factor (dB)	Limit (dBuV/m)	and S	2483.5				2500

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110	oduct:		Wirele	ss Mouse		Detecto	or		Vertical	
M	/lode	ŀ	Keeping T	Γransmittin	g	Test Volt	age]	DC3.0V	
Temp	perature		24 d	leg. C,		Humidi	ty	5	56% RH	
Test	Result:		P	ass						
CC Part 15C (Class B 1GHz-18GHz -2									
750										
80-				17.						
70-				M1						
			/							
60-										
98900			1	1						
50-			-							
	إن المالية والمعالم	I to be a substituted to the substitute of the s			The same of the sa	M2	و لا درون المنظمة المن	والمستعددة والمستعدة والمستعددة والمستعدد والمستعددة والمستعددة والمستعدد والم	was bus sty style and the face for	للنبي والمراول
(w/\ng 40-	hydry algan ywn ethyddigod y ar ethyddigod y a diwyddigod y ar yn ei y diwyddigod y a diwyddigod y a blan y b	the principal consequence of the same		,	The same	M2	n den ging den song den gan dip degra dipa	ndiran dirapan pedak diriking bepara	titional mask of also plane from the first down it for	d also also anima and a
(m/\dom\) 40-	helise kan beridar procesingsing die kalandi	d the major plant and the state of the state					n den considerate de la profesiona de la p	ndalara disalara pedaka disa disabah	Marykushishishishishishishishishishishishishis	de l'antre avite avite deside
-04 (m//m)	lapida palama desta aliguse, peres diregistas peta desta artica de	ll the string to the string of			A STATE OF THE PARTY OF THE PAR		n den considerates de la consideración de la c	ndagandsagangsidah, basaspalga	assendanskripterisk og skripter og skaptet hande for	d of the order words and be
(m/\dom\) 40-	iya ka para da ana da ayan a diriyaliya da karlardi	d to be mining to a graph of specific and			The same of the sa		n kingsaganang dengangkang sakanang	nt and seepen of the description	Miranghandrighiya dirigha sakil pelikhandi ya	destablisher with sold
30-	lapida pala pera desta alguna, pera setengalikan dala antara di	il taken mengelan mengelan kendan dan dan dan dan dan dan dan dan dan		,	A Marian Marian	n denistra e e più i più ai più	n hingi again ang iku ga ag kanan ja	ndramad siagna publika di kiri kipudya	isingnykunghyngiga pinykun pikupin kulupin kuntup	destadance morte model
(E/Ang) 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40	hydrig polynos destandigate, proce til ogsåtes plets de skravlik	La haziring a sanggap kan daga bari			Frequency (MHz)		n kurangan nagbangsak nanga	ning med segment des de segment	Maryalander (des parl es estados estados de la pela de la colon de la pela dela pela del	2500
30-	Frequency	Results	Factor	Limit		2483.5	Table (o)	Height	ANT	
40 40 40 40 40 40 40 40 40 40 40 40 40 4			Factor (dB)	Limit (dBuV/m)	Frequency (MHz)	2483.5				2500

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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8.0 Antenna Requirement

Applicable Standard

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is 1.6dBi Max. It fulfills the requirement of this section. Test Result: Pass

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GFSK Modulation									
Product:	V	ireless Mouse)	Te	st Mode:		Keep tran	smitting	
Mode	Keep	oing Transmitt	ing	Tes	st Voltage		DC3		
Temperature		24 deg. C,	-	Н	lumidity		56%	RH	
Test Result:		Pass		_	Detector		PF	ζ	
20dB Bandwidth		2.715MHz						=	
<u> </u>	Markei	r 1 [T1 nd	31 F	RBW	100 k	Hz Rl	F Att	20 dB	
Ref Lvl	ndB	20.0		'BW	300 k	Ηz			
10 dBm	BW	2.7154308	6 MHz S	WT	5 m	s Uı	nit	dBm	n
10					v ₁	[T1]	_5	.11 dBm	1
					_		2.40513	527 GHz	A
0			1		ndF	ş	20	.00 dB	1
		Mush	Mundh	man	M BW		2.71543	086 MHz	
-10		AND WALL			M. V.	[T1]	-25	.47 dBm	
		N			$oldsymbol{ abla}_{\mathrm{T}^{2}}$	M	2.40363	226 GHz .73 dBm	
-20					· ± å	· · ·	2.40634	770 GHz	İ
1MAX	u J					T2	mens	h.	1M
, company	V					V	γ.	W VV	
-40									,
-50									
-60									
7.0									
-70									1
-80									
-90									
Center 2.40	5 GHz		500 kHz/				Spa	n 5 MHz	

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Product:	Wireless Mous	se	Test Mode:	Keep tra	ansmitting	
Mode	Keeping Transmi	tting	Test Voltage	DC3.0V 56% RH		
Temperature	24 deg. C,		Humidity			
Test Result:	Pass		Detector	J	PK	
20dB Bandwidth	2.655MHz					
<u>ka</u>	Marker 1 [T1 n	ndB] RB	W 100 kHz	RF Att	20 dB	
Ref Lvl	ndB 20.	00 dB VB				
10 dBm	BW 2.655310)62 MHz SW	T 5 ms	Unit	dBm	
10			▼ 1 [T	1] - 6	.76 dBm	
				2.45044	389 GHz	
0			ndB	20	.00 dB	
	<u></u>		BW	2.65531	062 MHz	
-10		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	VT T	T1] -23	1.17 dBm 1234 GHz	
	and and		V T M [T1] -27	234 GHz	
-20			4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	766 GHz	
1MAX	T.J.			T2	1M2	
-30 John	V			4 mm	.	
- NA MAG				M. M.	Way.	
-40 M					My.	
Y						
-50						
-30						
-60						
-70						
-80						
-90						
Center 2.45	51 GHz	500 kHz/		Spa	an 5 MHz	

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Product:	Wireless Mou	se	Test Mode:	Keep tr	ansmitting
Mode	Keeping Transm	itting	Test Voltage	DC	C3.0V
Temperature	24 deg. C,		Humidity	56	% RH
Test Result:	Pass		Detector		PK
OdB Bandwidth	2.675MHz				
R	Marker 1 [T1:	ndB]	RBW 100 kH	z RF Att	20 dB
Ref Lvl	ndB 20	.00 dB	VBW 300 kH	Z	
10 dBm	BW 2.67535	070 MHz	SWT 5 ms	Unit	dBm
10			v ₁	T1] -5	.76 dBm
				2.47444	389 GHz
0	1		ndB	20	.00 dB
	المر	humpulum	BW VT	2.67535	070 MHz
-10	W-1-100		VIII TO THE TOTAL THE TOTAL TO	2.47365	230 GHz
	~~~		$\nabla_{\mathrm{T}1}$	<b>№</b> [T1] -25	.58 dBm
-20				2.47632	766 GHz
1MAX	7"			Y	1MA
-30	May de la company de la compan			1 Juneary	May .
,/b	<b>W</b>			(A)	7
-40					4
-50					
-60					
-70					
-80					
-90					
Center 2.4	75 GHz	500 kHz	/	Spa	an 5 MHz

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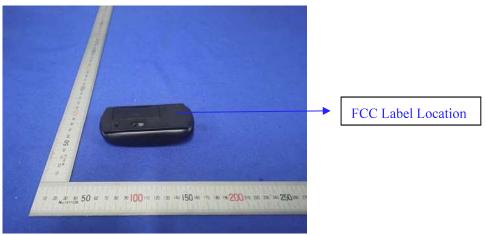


#### 10.0 FCC ID Label

#### FCC ID: ZJE-ST131

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### **Mark Location:**



Report No.: TW2104141E

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#### 11.0 Photo of testing

#### 11.1 Radiated emission test view





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# 11.2 Photographs – EUT

#### Outside View



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## Photographs – EUT

Outside View



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Outside view





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Inside view





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adopt any other remedies which may be appropriate.

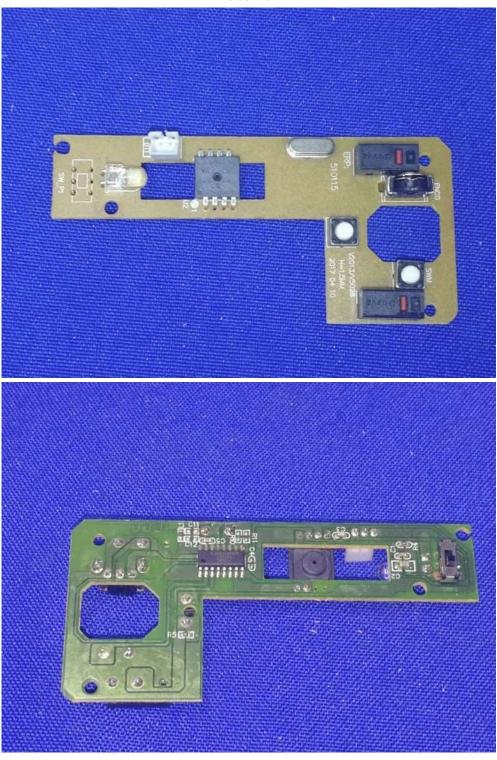
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Inside view



-- End of the report--

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