

Report No.: BLA-EMC-202011-A10603 Page 1 of 32

FCC TEST REPORT

Product Name	:	Bluetooth Mouse
Trade mark	:	TeckNet or TECKNET
Model No.	:	EWM01308
FCC ID	:	2AK8Q-EWM013085
Report Number	:	BLA-EMC-202011-A10603
Date of sample receipt	:	2020/11/30
Date of Test	:	2020/11/30 to 2020/12/21
Date of Issue	:	2020/12/25
Test Standards	:	FCC CFR Title 47 Part 15 Subpart C
		Section 15.249
Test result	:	PASS

Prepared for:

Shenzhen Unichain Technology Co., Ltd 201, 2nd Floor, Building C, Shanhai Commercial Plaza, Huangjunshan District, Bantian Street, Longgang District, Shenzhen, China Prepared by: BlueAsia of Technical Services(Shenzhen) Co.,Ltd. **IOT Test Centre of BlueAsia** No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China TEL: +86-755-23059481

Compiled by:

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Report Revise Record

Version No.	Date	Description
00	2020/12/25	Original



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1 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section	ANSI C63.10-2013	PASS
Antenna Requirement	15.203	ANSI 003.10-2013	FA33
AC Power Line	47 CFR Part 15 Subpart C Section	ANSI C63.10-2013	NI/A
Conducted Emission	15.207	ANSI 003.10-2013	N/A
Field Strength of the	47 CFR Part 15 Subpart C Section	ANSI C63.10-2013	PASS
Fundamental Signal	15.249 (a)	ANSI 003.10-2013	FA00
Spurious Emissions	47 CFR Part 15 Subpart C Section	ANSI C63.10-2013	PASS
Spurious Emissions	15.249 (a)/15.209	ANSI C03.10-2013	
Restricted bands around	47 CFR Part 15 Subpart C Section		
fundamental frequency (Radiated Emission)	15.249(a)/15.205	ANSI C63.10-2013	PASS
20dB Occupied	47 CFR Part 15 Subpart C Section	ANSI C63.10-2013	DASS
Bandwidth	15.215 (c)	ANSI C03. 10-2013	PASS

Pass: The EUT complies with the essential requirements in the standard. N/A: Not Applicable



2 General Information

Applicant	Shenzhen Unichain Technology Co., Ltd			
Address	201, 2nd Floor, Building C, Shanhai Commercial Plaza, Huangjunshan District, Bantian Street, Longgang District, Shenzhen, China			
Manufacturer	Shenzhen Tianjie Electronic CO., Ltd			
Address	No.5, Xifa Road, Lin Village, Tangxia Town, Dongguan City, Guangdong Province, P. R. China			
Factory	N/A			
Address	N/A			
Product Name	Bluetooth Mouse			
Test Model No.	EWM01308			

3 General Description of E.U.T.

Hardware version:	V1.0
Software version:	V3.0
Technical Parameter:	
Operating Frequency:	2403 MHz ~ 2480MHz
Device type:	Non-specific short range devices
Channel separation:	≥2MHz
Channel number:	16
Modulation:	GFSK
Antenna Type:	Chip Antenna
Antenna Gain	2.0dBi(Provided by the customer)
Power supply:	DC3.0V



4 Description of test

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1CH	2403 MHz	5CH	2407 MHz	9CH	2414 MHz	13CH	2419 MHz
2CH	2426 MHz	6CH	2422 MHz	10CH	2436 MHz	14CH	2439 MHz
3CH	2441 MHz	7CH	2445 MHz	11CH	2459 MHz	15CH	2453 MHz
4CH	2463 MHz	8CH	2466 MHz	12CH	2473 MHz	16CH	2480 MHz
Remark:The	Remark:The EUT operation in above frequency list, and used test software to control the EUT for staying in						

continuous transmitting and receiving mode. Channel 1, 3 and 16 were chosen for testing.

5 Description of Support Units

The EUT has been tested independently.

6 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation. (new battery is used)

7 Description of Support Units

The EUT has been tested independently and or

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Notebook computer	Lenovo	E470C	PF-10FB5C	/
	1	1	/	/

2) cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
1	1	/	/	/

7.1 Test Location

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

IOT Test Centre of BlueAsia

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.



7.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC — Designation No.: CN1252

BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Designation CN1252.

ISED — CAB identifier No.: CN0028

BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with CAB identifier CN0028

7.3 Deviation from Standards

None.

7.4 Abnormalities from Standard Conditions

None.

7.5 Other Information Requested by the Customer

None.



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7.6 Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz ± 4.34dB		(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
Note (1): The measurement ur	ncertainty is for coverage factor	of k=2 and a level of confidence	e of 95%.

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8 Equipment List

Radi	Radiated Emission:								
ltem	Test Equipment	Test Equipment Manufacturer Model No. Serial		Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	3m SAC	SKET	9m*6 m*6m	966	06-10-2018	06-09-2023			
2	Broadband Antenna	SCHWARZBECK	VULB9168	00836 P:00227	07-14-2019	07-13-2021			
3	Horn Antenna	SCHWARZBECK	9120D	01892 P:00331	07-14-2019	07-13-2021			
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A			
5	Pre-amplifier	SKET	N/A	N/A	07-19-2020	07-18-2021			
6	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	05-24-2020	05-23-2021			
7	EMI Test Receiver	Rohde & Schwarz	ESR7	101199	03-21-2020	03-20-2021			
8	Controller	SKET	N/A	N/A	N/A	N/A			
9	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2020	05-23-2021			
10	Signal Generator	Agilent	E8257D	MY44320250	05-24-2020	05-23-2021			
11	Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A			
12	Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A			
13	Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A			

Conducted Emission						
ltem	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	EMI Test Receiver	Rohde & Schwarz	ESPI3	101082	06-10-2020	06-09-2021
2	LISN	CHASE	MN2050D	1447	12-18-2020	12-17-2021
3	LISN	Rohde & Schwarz	ENV216	3560.6550.15	07-19-2020	07-18-2021
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A
5	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2020	07-18-2021
6	Coaxial Cable	BlueAsia	BLA-XC-05	N/A	N/A	N/A



9 Test results and Measurement Data 9.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
responsible party shall be used v antenna that uses a unique coup	esigned to ensure that no antenna other than that furnished by the vith the device. The use of a permanently attached antenna or of an ling to the intentional radiator, the manufacturer may design the unit replaced by the user, but the use of a standard antenna jack or
EUT Antenna:	
The antenna is integrated on the of the antenna is 2.0dBi.	main PCB and no consideration of replacement. The best case gain



Limit:

9.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207
Test Method:	ANSI C63.10
Test Frequency Range:	150KHz to 30MHz

Frequency renge (MHz)	Limit (dBµV)		
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

* Decreases with the logarithm of the frequency.

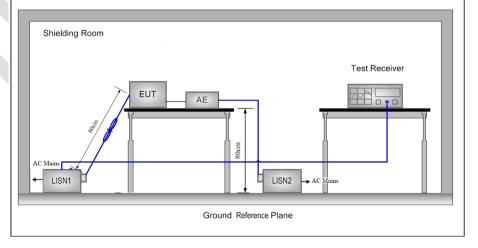
1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu$ H + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0,4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

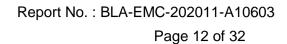


Test Setup:

Test Procedure:

Test Mode: Instruments Used: Test Results:

Keep the EUT in transmitting mode Refer to section 5.11 for details N/A





9.3 Radiated Emission

Test Requirement:	equirement: 47 CFR Part 15C Section 15.249 and 15.209					
Test Method:	ANSI C63.10					
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)					
	Frequency	Detector	RBW	VBW	Remark	
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak	
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average	
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak	
Dessiver Ceture	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak	
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average	
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
	30MHz-1GHz	Quasi-peak	120kHz	300KHz	Quasi-peak	
	Above 1GHz	Peak	1MHz	3MHz	Peak	
	Above IGH2	Peak	1MHz	10Hz	Average	
Test Setup:						
(Turntabl	Antenna Antenna Tower Antenna Antenna Tower					
Figure 1. Below 30MHz Figure 2. 30MHz to 1GHz						
Test Procedure:	Below 1GHz test procedure as below:					
	 The EOT was placed on the top of a rotating table of a meters above the ground at a complexity meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 					

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	30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.						
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.						
	If the emission level of the EUT in peak mode was 10dB lower than the limit specified,						
	then testing could be						
	Otherwise the emission using peak, quasi-peak						
	sheet.	-					
	Above 1GHz test proce Different between above		ango from	Somi Anochoia (Chambor to fully		
	Anechoic Chamber and						
	distance is 1 meter and			- I Kale - The second	- 1		
	Test the EUT in the low The radiation measurer						
	mode, and found the X a	axis positioning which	ch it is wors	e case.	J		
	Repeat above procedure			ed was complete.	Measurement		
	Frequency	Field strength (microvolt/meter)	Limit (dBµV/m	Remark	distance (m)		
	0.009MHz-0.490MHz	2400/F (kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-		30		
	1.705MHz-30MHz	30	-	-	30		
Limit:	30MHz-88MHz	100	40.0	Quasi-peak	3		
(Spurious Emissions)	88MHz-216MHz	150	43.5	Quasi-peak	3		
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz	Average	3				
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						
Limit:	Frequency Limit (dBµV/m @3m) Remark						
(Field strength of the	94.0 Average Value						
fundamental signal)	2400MHz-2483.5MHz 114.0 Peak Value						
Instruments Used:	Refer to section 5.11 for	r details					
Exploratory Test Mode:	Transmitting mode						
Final Test Mode:	Pretest the EUT at Transmitting mode						
Test Results:	Pass						



Measurement Data Field Strength Of The Fundamental Signal

Peak	va	lue:
i ouit	vu	

(MHz) (dBuV) Correct Factor (dB) (dBµV/m) (dBµV/m) Limit (dB) Polaxis 2403 98.87 -10.26 88.61 114.00 -25.39 H 2403 95.64 -10.60 85.04 114.00 -28.96 V 2441 98.60 -10.38 88.22 114.00 -25.78 H 2441 95.18 -10.75 84.43 114.00 -29.57 V 2480 97.25 -10.52 86.73 114.00 -27.27 H	i can value.						
2403 95.64 -10.60 85.04 114.00 -28.96 V 2441 98.60 -10.38 88.22 114.00 -25.78 H 2441 95.18 -10.75 84.43 114.00 -29.57 V 2480 97.25 -10.52 86.73 114.00 -27.27 H		U U	Correct Factor (dB)			Limit	Antenna Polaxis
2441 98.60 -10.38 88.22 114.00 -25.78 H 2441 95.18 -10.75 84.43 114.00 -29.57 V 2480 97.25 -10.52 86.73 114.00 -27.27 H	2403	98.87	-10.26	88.61	114.00	-25.39	Н
2441 95.18 -10.75 84.43 114.00 -29.57 V 2480 97.25 -10.52 86.73 114.00 -27.27 H	2403	95.64	-10.60	85.04	114.00	-28.96	V
2480 97.25 -10.52 86.73 114.00 -27.27 H	2441	98.60	-10.38	88.22	114.00	-25.78	Н
	2441	95.18	-10.75	84.43	114.00	-29.57	V
2480 95.13 -10.91 84.22 114.00 -29.78 V	2480	97.25	-10.52	86.73	114.00	-27.27	Н
	2480	95.13	-10.91	84.22	114.00	-29.78	V

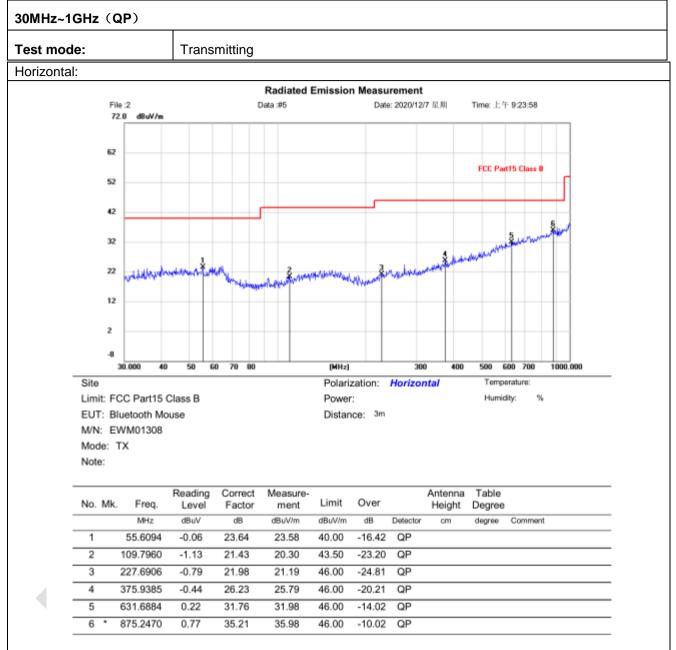
Average value:

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Antenna Polaxis
2403	98.15	-10.26	87.89	94	-6.11	Н
2403	95.11	-10.60	84.51	94	-9.49	V
2441	97.10	-10.38	87.32	94	-6.68	Н
2441	94.67	-10.75	83.92	94	-10.08	V
2480	96.65	-10.52	86.13	94	-7.87	Н
2480	94.91	-10.91	84.00	94	-10.00	V

NOTE: RBW 3MHz VBW 10MHz , PK detector is for PK value ,RMS detector is for AV value.

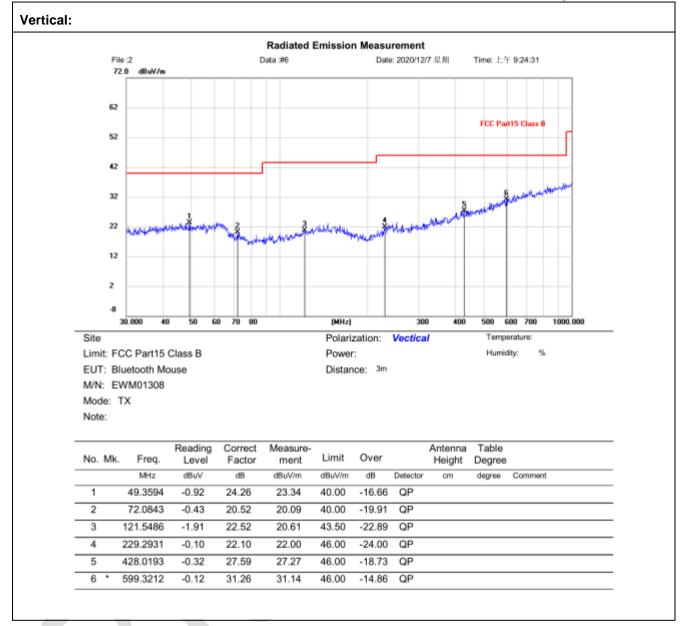


Spurious Emissions

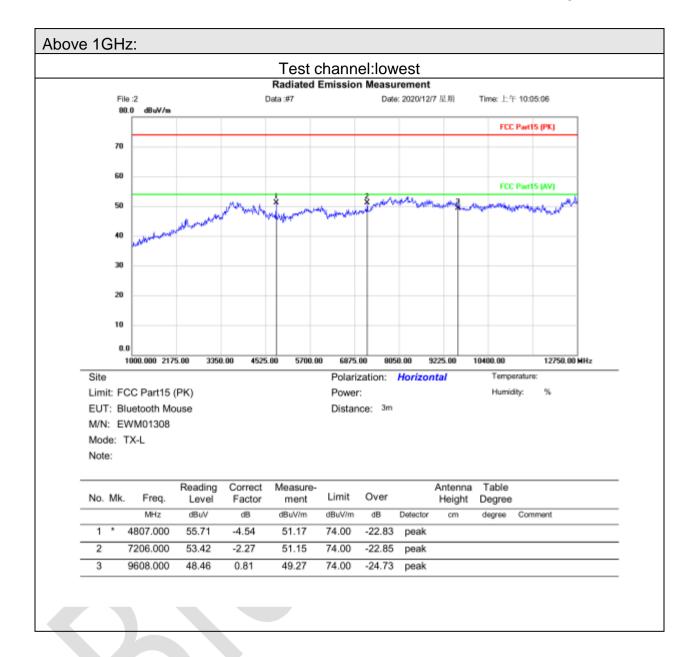




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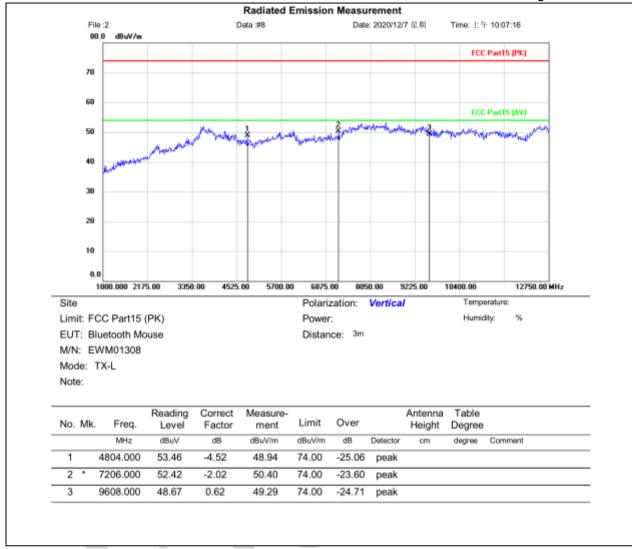




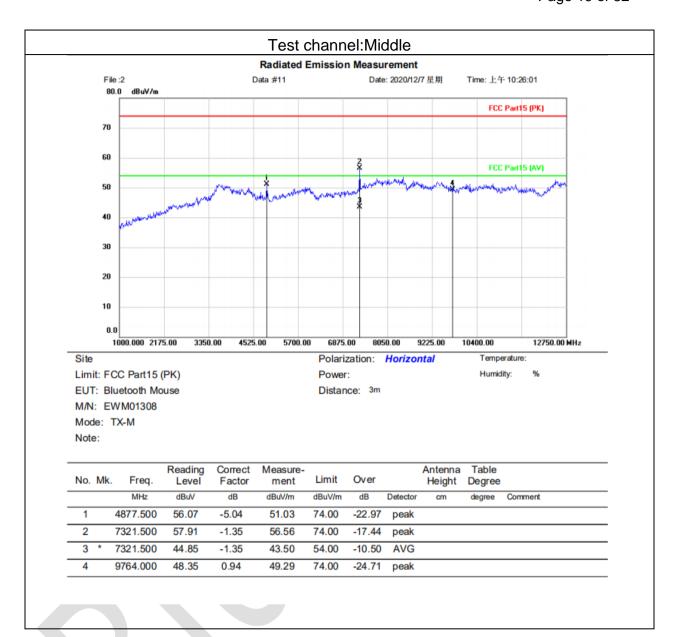




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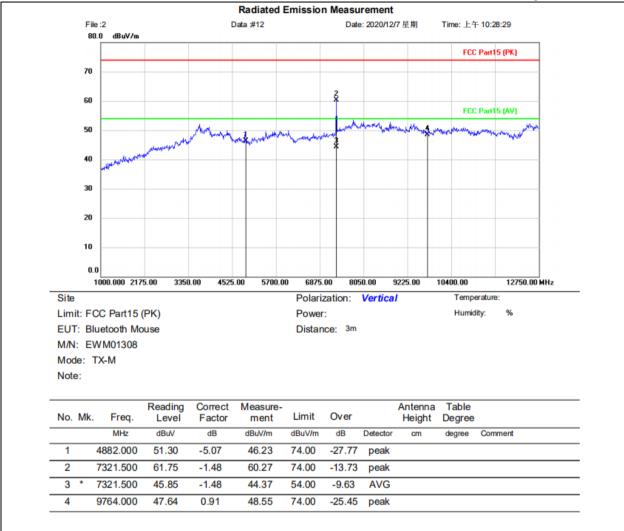




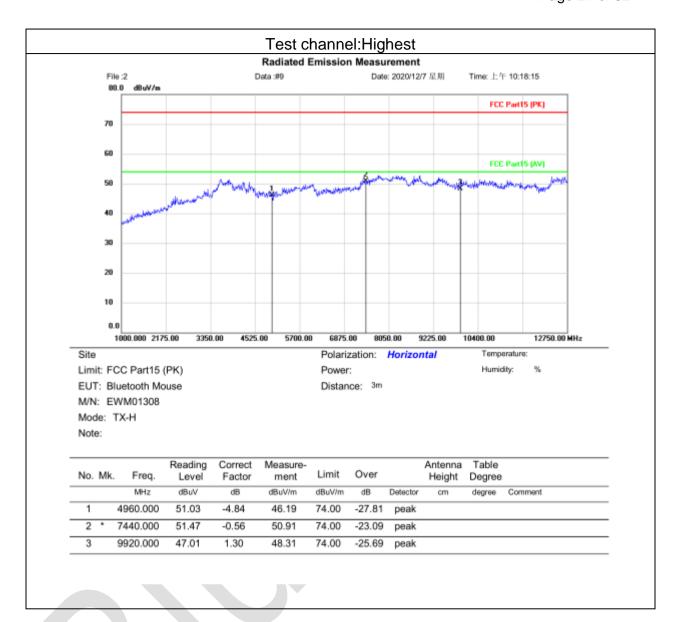




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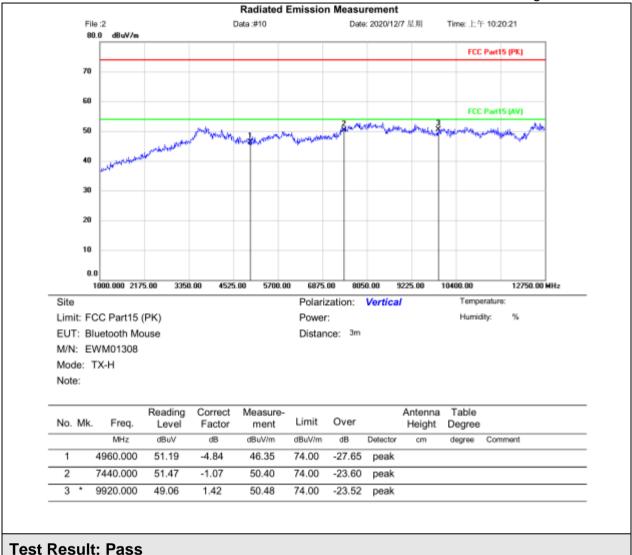








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Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits.

However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

4) Fundamental frequency is blocked by filter to show only suprious emission.



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9.4 Restricted bands around fundamental frequency

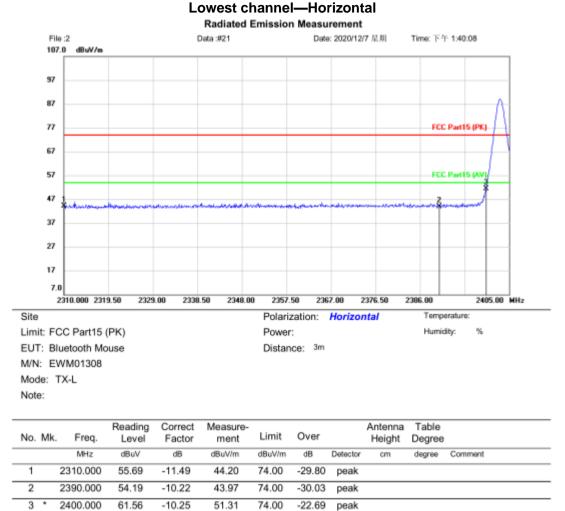
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Setup:					
AE EUT (Turntable) Ground Test Receiver	Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Coround Reference Plane Test Receiver Plane Test Receiver Plane Test Receiver Plane Test Receiver Plane Test Receiver Plane Test Receiver Plane				
Figure 1. 3	0MHz to 1GHz Figure 2. Above 1 GHz Below 1GHz test procedure as below:				
Test Procedure:	 a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Above 1GHz test procedure as below: g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(). h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. 				



Limit(band edge):	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.						
	Frequency Limit (dBµV/m @3m) Remark						
	30MHz-88MHz 40.0 Quasi-peak Value						
	88MHz-2	16MHz	43.5	Quasi-peak Value			
	216MHz-960MHz 46.0 Quasi-peak Value						
	960MHz-1GHz 54.0 Quasi-peak Value						
	Above		54.0	Average Value			
	Above 1GHz 74.0 Peak Value						
Instruments Used:	Refer to section 5.11 for details						
Exploratory Test Mode:	Transmitting mode						
Final Test Mode:	Pretest the EUT at Transmitting mode						
Test Results:	Pass						



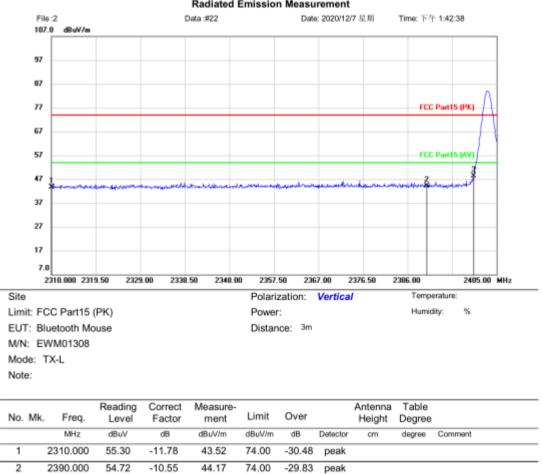
Band edge test data (Radiated Emission)





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Lowest channel—Vertical Radiated Emission Measurement



54.72

58.91

2

3

2400.000

-10.55

-10.59

44.17

48.32

74.00

74.00

-29.83

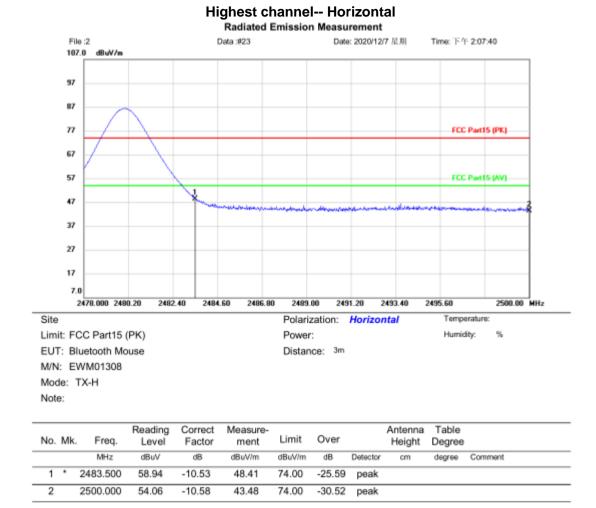
-25.68

peak

peak



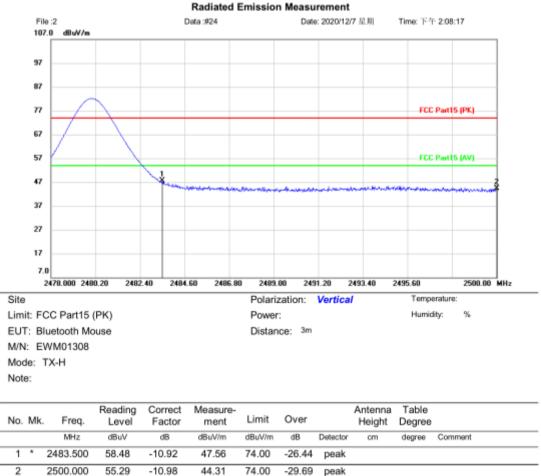
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Highest channel-- Vertical



Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Correct Factor

Correct Factor = Antenna Factor + Cable Factor - Preamplifier Factor



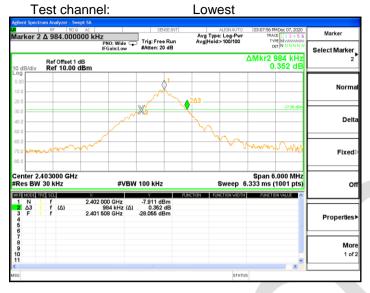
9.5 20dB Bandwidth

Test Requirement: Test Method:		R Part 15C Section 15.215 C63.10		
Test Setup:		Spectrum Analyzer E. Non-Conducted Table Ground Reference Plane	U.T	
Instruments Used:	Refer	to section 5.11 for details		
Exploratory Test Mode:				
Final Test Mode:	Pretes	t the EUT at Transmitting mode		
Limit:	N/A			
Test Results:	Pass			
Measurement Data				
Toot shannel		20dP bondwidth (MHz)	Populto	

Test channel	20dB bandwidth (MHz)	Results
Lowest	0.984	Pass
Middle	0.966	Pass
Highest	0.936	Pass



Test plot as follows:



Test channel: Middle
 re
 50 Q
 AC

 ker 1 2.440982000000 GHz
 Trig:Free Run IFGaint.ow
 Trig:Free Run
 Marker Avg Type: Log-Pwr Avg|Hold>100/100 DET N Select Marker Mkr1 2.440 982 GHz -9.605 dBm Ref Offset 1 dB Ref 10.00 dBm Norm Delt Fixed Span 6.000 MHz Sweep 6.333 ms (1001 pts Center 2.441000 GHz #Res BW 30 kHz #VBW 100 kHz 01 2.440 -9.605 dBm 0.336 dB -29.658 dBm f (Δ) 2.440 982 GHz 966 kHz (Δ) 2.440 532 GHz ∆3 Properties More 1 of 2 STAT

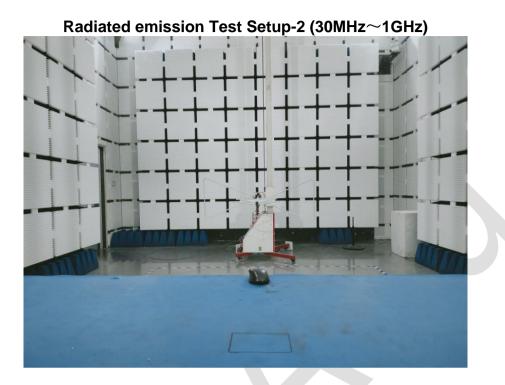
Test channel: Highest
 №
 50 № AC
 Trig: Free Run

 er 1 2.479988000000 GHz
 Trig: Free Run
 FNO: Wide Gains.ow
 #Atten: 20 dB
 Marker Aug Type: Log-Pwr Avg|Hold>100/100 TYPE Select Marker Mkr1 2.479 988 GHz -10.479 dBm Ref Offset 1 dB Ref 10.00 dBn Norm X Delt Fixed Center 2.480000 GHz #Res BW 30 kHz Span 6.000 MHz Sweep 6.333 ms (1001 pts) #VBW 100 kHz O 2.479 988 GHz 936 kHz (Δ) 0.338 dB 2.479 550 GHz -30.597 dBm N ∆3 F f f (Δ) f Properties More 1 of 2 10 STATU

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Page 31 of 32 APPENDIX 1 PHOTOGRAPHS OF TEST SETUP



Radiated spurious emission Test Setup-3(Above 1GHz)



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APPENDIX 2 PHOTOGRAPHS OF EUT

Reference to the test report No. BLA-EMC-202011-A10602

*** End of Report ***

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