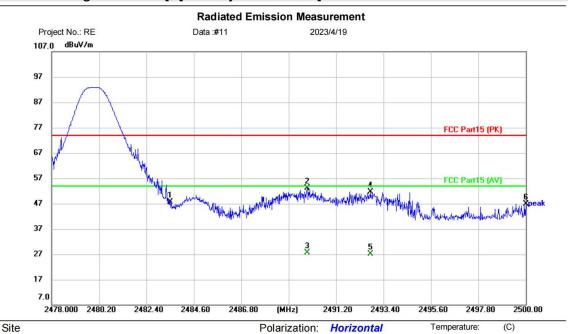


Humidity:

%RH



[TestMode: TX high channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: Wireless Silent Mouse

M/N: TK-MS008 Mode: TX-H Note:

No	. Mł	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
ž.		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2483.500	51.48	-3.96	47.52	74.00	-26.48	peak		
2	*	2489.858	57.05	-3.97	53.08	74.00	-20.92	peak		
3	1	2489.858	31.48	-3.97	27.51	54.00	-26.49	AVG		
4	8	2492.784	55.49	-3.98	51.51	74.00	-22.49	peak		
5	ì	2492.784	31.01	-3.98	27.03	54.00	-26.97	AVG		
6		2500.000	50.76	-4.00	46.76	74.00	-27.24	peak		

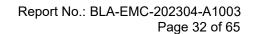
Power:

*:Maximum data Reference Only x:Over limit !:over margin

Engineer Signature

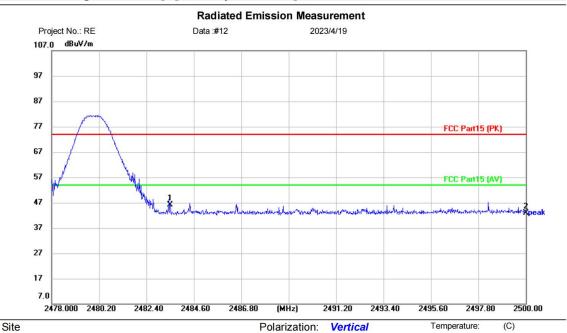
FSP40 Receiver: ESR_1 Spectrum Analyzer: Antenna: EZ 9120D 1G-18G

Test Result: Pass





[TestMode: TX high channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: Wireless Silent Mouse

M/N: TK-MS008 Mode: TX-H Note:

Humidity: %RH Power:

No.	N	Λk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2	2483.500	50.08	-3.96	46.12	74.00	-27.88	peak	
2		2	2500.000	46.84	-4.00	42.84	74.00	-31.16	peak	

*:Maximum data ⟨Reference Only x:Over limit !:over margin

Engineer Signature

FSP40 Receiver: ESR_1 Spectrum Analyzer: Antenna: EZ 9120D 1G-18G

Test Result: Pass



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14 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

14.1 CONCLUSION

Standard Requirement:

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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The best case gain of the antenna is 1.8dBi.





15 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11				
Test Mode (Pre-Scan)	TX				
Test Mode (Final Test)	TX				
Tester	Jozu				
Temperature	25℃				
Humidity	60%				

15.1 LIMITS

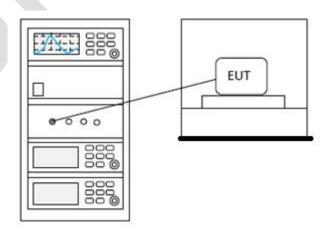
Limit:

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

In any 100 kHz bandwidth outside the frequency band in which the spread

15.2 BLOCK DIAGRAM OF TEST SETUP

emission limits specified in §15.209(a) (see §15.205(c)).





15.3 TEST DATA





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16 CONDUCTED BAND EDGES MEASUREMENT

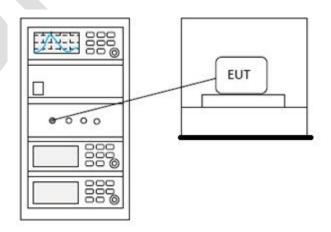
Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2				
Test Mode (Pre-Scan)	TX				
Test Mode (Final Test)	TX				
Tester	Jozu				
Temperature	25℃				
Humidity	60%				

16.1 LIMITS

Limit:

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) (see §15.205(c)).

16.2 BLOCK DIAGRAM OF TEST SETUP





16.3 TEST DATA





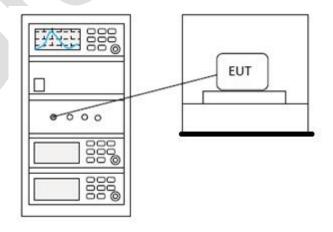
17 DWELL TIME

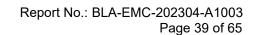
Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.4				
Test Mode (Pre-Scan)	TX				
Test Mode (Final Test)	TX				
Tester	Jozu				
Temperature	25℃				
Humidity	60%				

17.1 LIMITS

Frequency(MHz)	Limit		
	0.4S within a 20S period(20dB		
002.028	bandwidth<250kHz)		
902-928	0.4S within a 10S period(20dB		
	bandwidth≥250kHz)		
	0.4S within a period of 0.4S multiplied by the		
2400-2483.5	number		
	of hopping channels		
5725-5850	0.4S within a 30S period		

17.2 BLOCK DIAGRAM OF TEST SETUP







17.3 TEST DATA





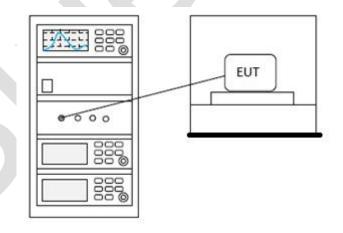
18 HOPPING CHANNEL NUMBER

Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.3				
Test Mode (Pre-Scan)	TX				
Test Mode (Final Test)	TX				
Tester	Jozu				
Temperature	25℃				
Humidity	60%				

18.1 LIMITS

Frequency range(MHz)	Number of hopping channels (minimum)			
002.020	50 for 20dB bandwidth <250kHz			
902-928	25 for 20dB bandwidth ≥250kHz			
2400-2483.5	15			
5725-5850	75			

18.2 BLOCK DIAGRAM OF TEST SETUP



18.3 TEST DATA



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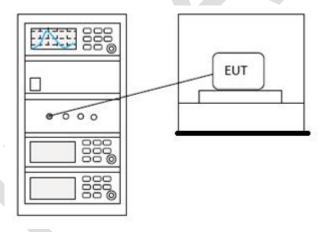
19 CARRIER FREQUENCIES SEPARATION

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

19.1 LIMITS

Limit: 2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

19.2 BLOCK DIAGRAM OF TEST SETUP



19.3 TEST DATA



20 APPENDIX

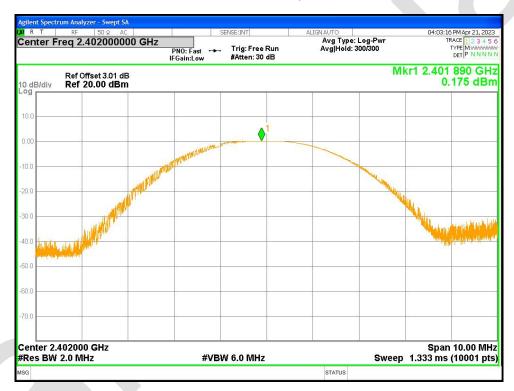
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Appendix1

Maximum Conducted Output Power

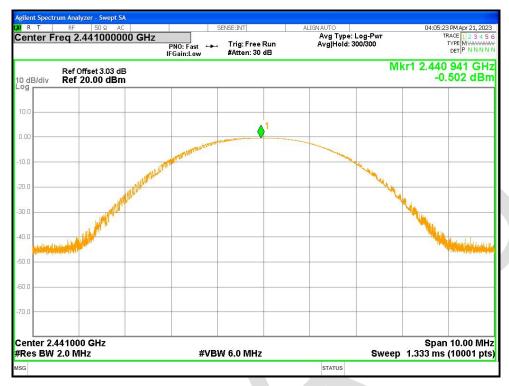
Condition	Mode	Frequency	Antenna	Conducted Power	Limit	Verdict
		(MHz)		(dBm)	(dBm)	
NVNT	1-DH1	2402	Ant1	0.175	21	Pass
NVNT	1-DH1	2441	Ant1	-0.502	21	Pass
NVNT	1-DH1	2480	Ant1	0.186	21	Pass

Power NVNT 1-DH1 2402MHz Ant1



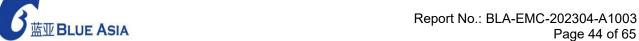
Power NVNT 1-DH1 2441MHz Ant1





Power NVNT 1-DH1 2480MHz Ant1





-20dB Bandwidth

Condition	Mode	Frequency	Antenna	-20 dB Bandwidth	Limit -20 dB	Verdict
		(MHz)		(MHz)	Bandwidth (MHz)	
NVNT	1-DH1	2402	Ant1	1.047	0	Pass
NVNT	1-DH1	2441	Ant1	0.973	0	Pass
NVNT	1-DH1	2480	Ant1	0.928	0	Pass

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1





Occupied Channel Bandwidth

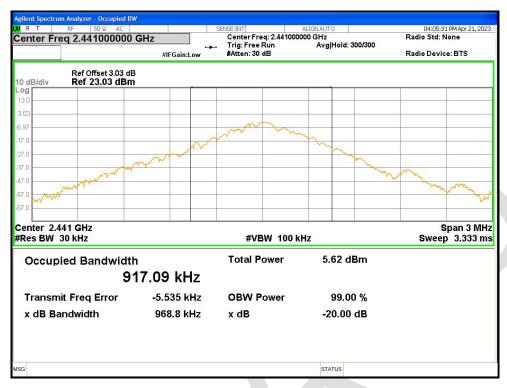
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.99379
NVNT	1-DH1	2441	Ant1	0.91709
NVNT	1-DH1	2480	Ant1	0.89171

OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1





OBW NVNT 1-DH1 2480MHz Ant1

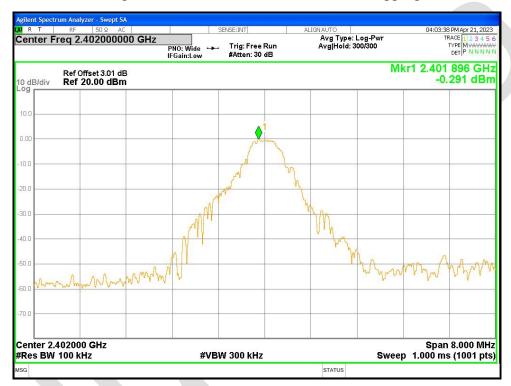




Band Edge

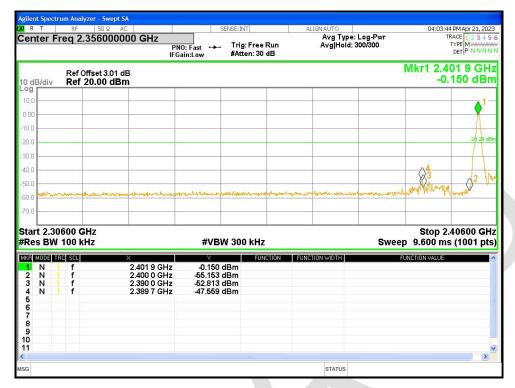
Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH1	2402	Ant1	No-Hopping	-47.26	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-54.57	-20	Pass

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission





Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission







Band Edge(Hopping)

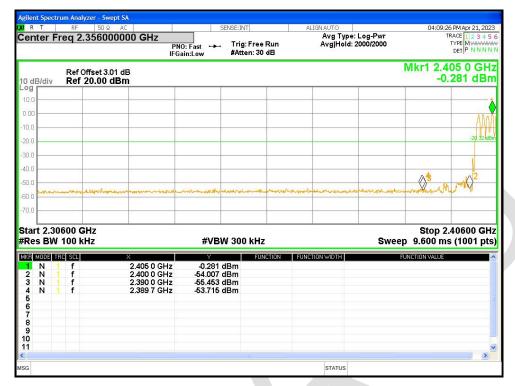
Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH1	2402	Ant1	Hopping	-53.39	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-44.38	-20	Pass

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



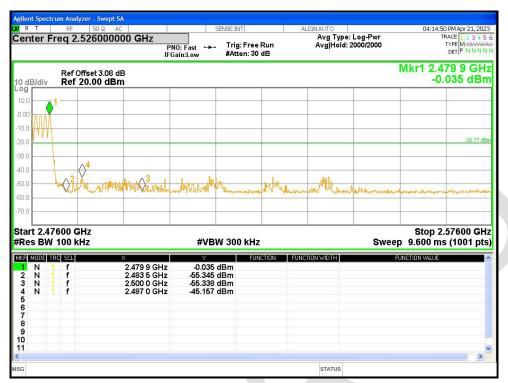


Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission







Conducted RF Spurious Emission

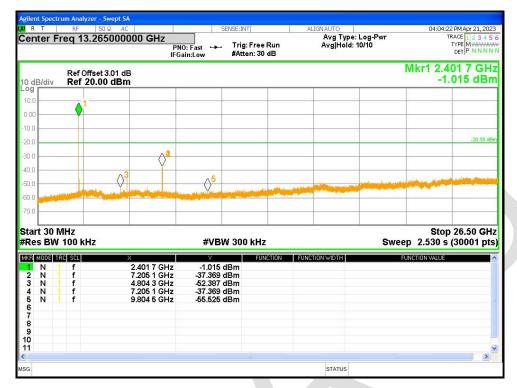
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-36.81	-20	Pass
NVNT	1-DH1	2441	Ant1	-40.69	-20	Pass
NVNT	1-DH1	2480	Ant1	-43.96	-20	Pass

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



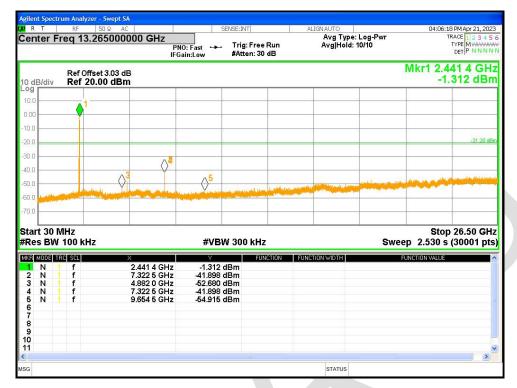


Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



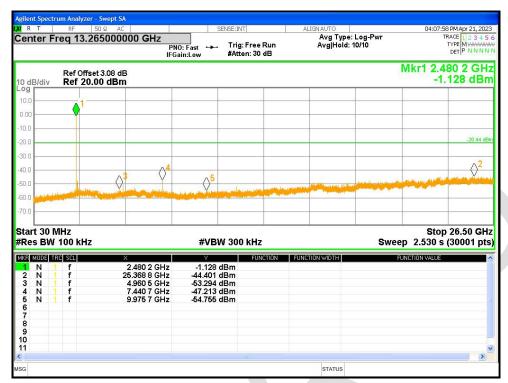


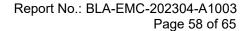
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission









Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
			(MHz)	(MHz)	(MHz)	(MHz)	
NVNT	1-DH1	Ant1	2440.984	2442.037	1.053	0.973	Pass

CFS NVNT 1-DH1 2441MHz Ant1

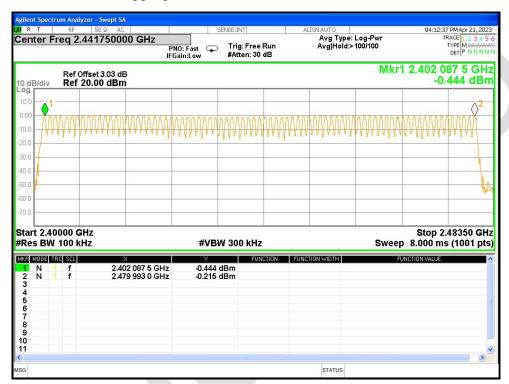




Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass

Hopping No. NVNT 1-DH1 2441MHz Ant1

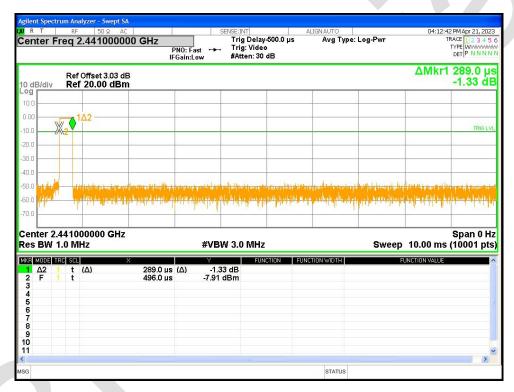




Dwell Time

Condition	Mode	Frequency	Antenna	Pulse	Total	Burst	Period	Limit	Verdict
		(MHz)		Time	Dwell	Count	Time	(ms)	
				(ms)	Time		(ms)		
					(ms)				
NVNT	1-DH1	2441	Ant1	0.289	144.789	501	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.546	261.274	169	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.785	306.35	110	31600	400	Pass

Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated