

Applicant: Eastern Times Technology Co.,Ltd

Product: 3 MODES CONNECTION BACKLIGHTING MECHANICAL

KEYBOARD

Model No.: K728WBB-RGB-PRO, ET-7386

Trademark: REDRAGON

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation

electromagnetic compatibility

Approved By

Terry Tong

Terry Tang

Manager

Dated: September 11, 2025

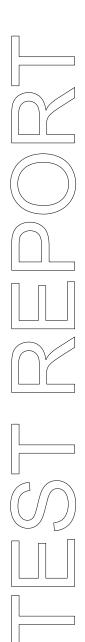
Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



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Date: 2025-09-11



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory 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 our files. Registration No.: 744189.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

Date: 2025-09-11



Test Report Conclusion

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The report refers only to the sample tested and does not apply to the bulk.

11.0

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Photo of Test Setup and EUT View....

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Date: 2025-09-11



1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United States

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,

Guangdong, China.

1.3 Description of EUT

Product: 3 MODES CONNECTION BACKLIGHTING MECHANICAL KEYBOARD

Manufacturer: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,

Dongguan City, Guangdong, China.

Trademark: REDRAGON

Model Number: K728WBB-RGB-PRO

Additional Model Name ET-7386

Rating: Input: DC5V, 670mA or DC3.7V, 140mA

Battery: DC3.7V, 4000mAh Li-ion battery

Hardware Version: 7386-A TX V1

Software Version: 72DF

Serial No.: RDK728WBB-RGB-PRO25012100029

Operation Frequency: 2402-2480MHz

Modulation Type: GFSK Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain 2.34dBi maximum (Declared by the Manufacturer)

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2025-09-08 to 2025-09-11

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2025-07-17	2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic			N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2025-07-11	2026-07-10
RF Cable	Zhengdi	7m		2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

2.2 Automation Test Software

For Conducted Emission Test

Name	Version		
EZ-EMC	Ver.EMC-CON 3A1.1		

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 and ANSI C63.10-2020+Cor.1-2023

4.0 EUT Modification

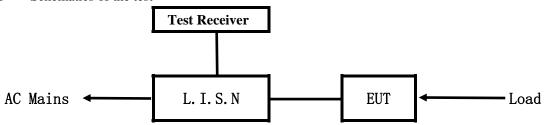
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

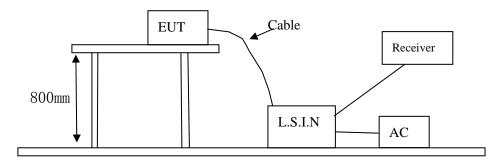


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor.1-2023. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor.1-2023.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2020+Cor.1-2023. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
3 MODES CONNECTION			
BACKLIGHTING	Eastern Times Technology	K728WBB-RGB-PRO,	TUVET-7386A
MECHANICAL	Co.,Ltd	ET-7386	10VE1-/380A
KEYBOARD			

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A;
			Output: DC5V, 3A; DC9V, 3A; DC12V,
			3A; DC15V, 3A; DC20V, 2.25A;
PC	ThinkPad	R4	Input: DC19.5V, 2.31A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor.1-2023

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition
- 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB \(\mu \)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Date: 2025-09-11



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

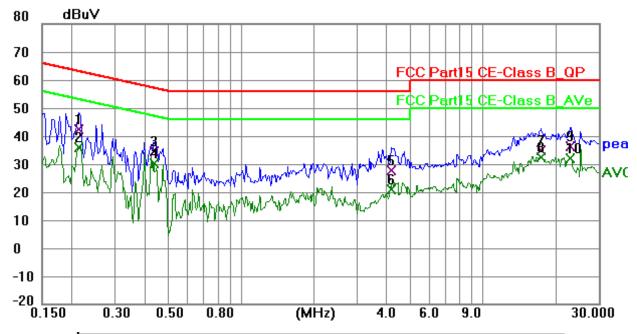
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging + Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2124	31.99	10.32	42.31	63.11	-20.80	QP	Р
2	0.2124	25.61	10.32	35.93	53.11	-17.18	AVG	Р
3	0.4347	23.96	10.38	34.34	57.16	-22.82	QP	Р
4	0.4347	19.80	10.38	30.18	47.16	-16.98	AVG	Р
5	4.1817	15.57	12.08	27.65	56.00	-28.35	QP	Р
6	4.1817	8.80	12.08	20.88	46.00	-25.12	AVG	Р
7	17.4105	19.05	15.76	34.81	60.00	-25.19	QP	Р
8	17.4105	16.70	15.76	32.46	50.00	-17.54	AVG	Р
9	22.9992	20.38	15.78	36.16	60.00	-23.84	QP	Р
10	22.9992	16.30	15.78	32.08	50.00	-17.92	AVG	Р

Date: 2025-09-11



B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

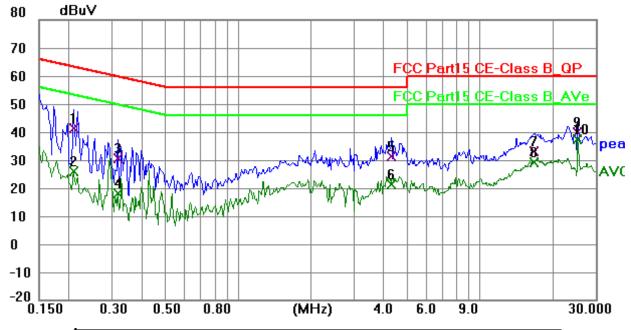
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging + Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2085	30.88	10.32	41.20	63.26	-22.06	QP	Р
2	0.2085	15.62	10.32	25.94	53.26	-27.32	AVG	Р
3	0.3177	20.17	10.35	30.52	59.77	-29.25	QP	Р
4	0.3177	7.75	10.35	18.10	49.77	-31.67	AVG	Р
5	4.3065	19.16	12.11	31.27	56.00	-24.73	QP	Р
6	4.3065	9.16	12.11	21.27	46.00	-24.73	AVG	Р
7	16.7085	17.46	15.58	33.04	60.00	-26.96	QP	Р
8	16.7085	13.62	15.58	29.20	50.00	-20.80	AVG	Р
9	25.2300	24.45	15.29	39.74	60.00	-20.26	QP	Р
10	25.2300	21.93	15.29	37.22	50.00	-12.78	AVG	Р

Date: 2025-09-11



6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2020+Cor.1-2023. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2020+Cor.1-2023.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

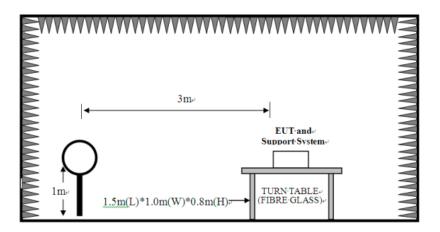
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.

- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

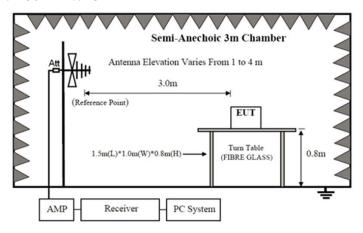
For radiated emissions from 9kHz to 30MHz



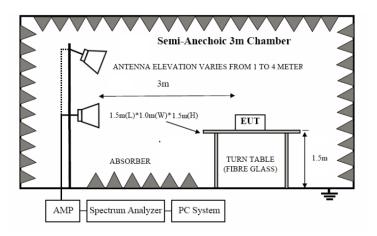
Date: 2025-09-11



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT Same as section 5.3 of this report

6.3 EUT Operating Condition Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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 § 15.209, whichever is the lesser attenuation.

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A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequence	y Field Str	ength of Fundame	ental (3m)	Field Strength of Harmonics (3m)			
(MHz)	mV/m	dBu	V/m	uV/m	dBuV/m		
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)	

Note:

- 1. RF Field Strength $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. Battery fully charged was used during the test.

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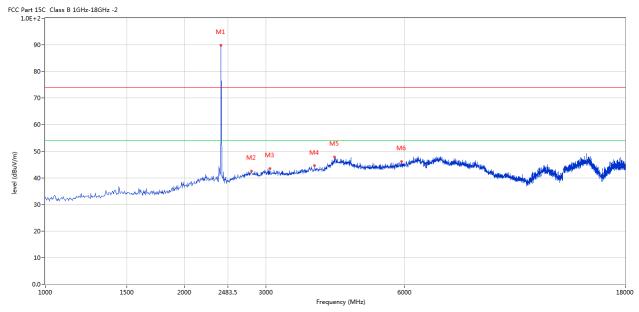


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal



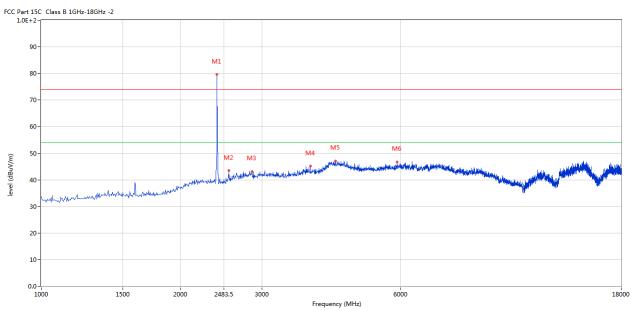
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	89.77	-3.57	114.0	-24.23	Peak	148.00	100	Horizontal	Pass
2	2793.052	42.60	-2.71	74.0	-31.40	Peak	195.00	100	Horizontal	Pass
3	3060.735	43.58	-2.37	74.0	-30.42	Peak	224.00	100	Horizontal	Pass
4	3825.544	44.59	0.44	74.0	-29.41	Peak	184.00	100	Horizontal	Pass
5	4224.944	47.89	1.66	74.0	-26.11	Peak	9.00	100	Horizontal	Pass
6	5903.274	46.17	3.82	74.0	-27.83	Peak	0.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	79.60	-3.57	114.0	-34.40	Peak	292.00	100	Vertical	Pass
2	2546.613	43.51	-3.46	74.0	-30.49	Peak	15.00	100	Vertical	Pass
3	2856.786	43.11	-2.68	74.0	-30.89	Peak	292.00	100	Vertical	Pass
4	3825.544	45.15	0.44	74.0	-28.85	Peak	358.00	100	Vertical	Pass
5	4335.416	47.08	1.90	74.0	-26.92	Peak	71.00	100	Vertical	Pass
6	5894.776	46.70	3.82	74.0	-27.30	Peak	0.00	100	Vertical	Pass

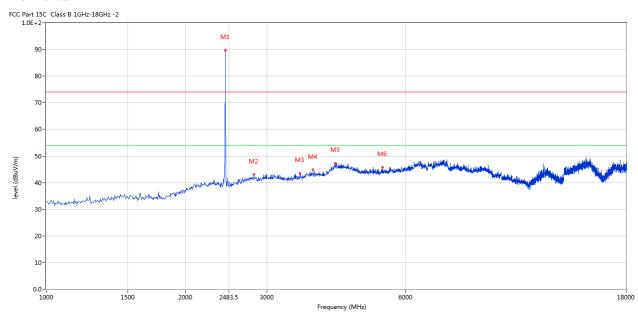
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



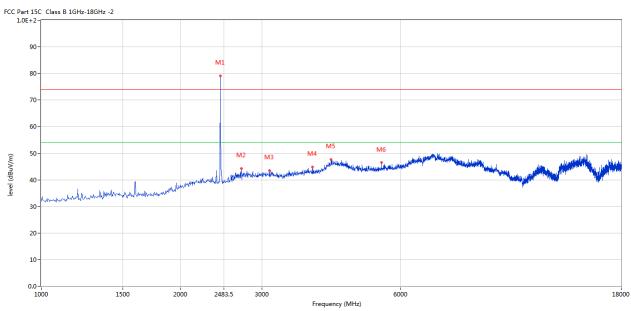
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	89.57	-3.57	114.0	-24.43	Peak	157.00	100	Horizontal	Pass
2	2814.296	43.14	-2.69	74.0	-30.86	Peak	312.00	100	Horizontal	Pass
3	3540.865	43.58	-0.89	74.0	-30.42	Peak	66.00	100	Horizontal	Pass
4	3778.805	44.74	0.20	74.0	-29.26	Peak	98.00	100	Horizontal	Pass
5	4229.193	47.35	1.67	74.0	-26.65	Peak	20.00	100	Horizontal	Pass
6	5338.165	45.76	3.56	74.0	-28.24	Peak	207.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	79.02	-3.57	114.0	-34.98	Peak	114.00	100	Vertical	Pass
2	2712.322	44.20	-2.93	74.0	-29.80	Peak	20.00	100	Vertical	Pass
3	3115.971	43.49	-2.16	74.0	-30.51	Peak	311.00	100	Vertical	Pass
4	3868.033	44.74	0.65	74.0	-29.26	Peak	45.00	100	Vertical	Pass
5	4241.940	47.67	1.70	74.0	-26.33	Peak	220.00	100	Vertical	Pass
6	5448.638	46.42	3.81	74.0	-27.58	Peak	85.00	100	Vertical	Pass

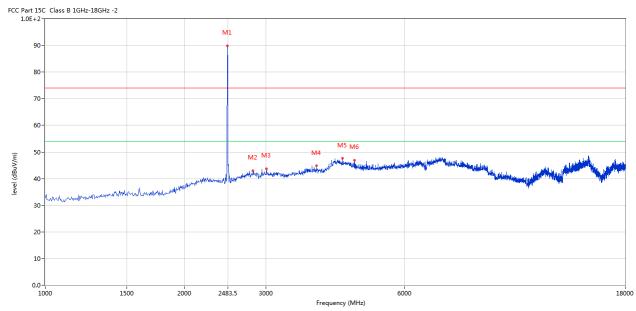
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	89.87	-3.57	114.0	-24.13	Peak	168.00	100	Horizontal	Pass
2	2814.296	42.92	-2.69	74.0	-31.08	Peak	320.00	100	Horizontal	Pass
3	3013.997	43.72	-2.58	74.0	-30.28	Peak	17.00	100	Horizontal	Pass
4	3863.784	44.75	0.63	74.0	-29.25	Peak	12.00	100	Horizontal	Pass
5	4394.901	47.56	1.99	74.0	-26.44	Peak	257.00	100	Horizontal	Pass
6	4671.082	46.98	2.79	74.0	-27.02	Peak	182.00	100	Horizontal	Pass

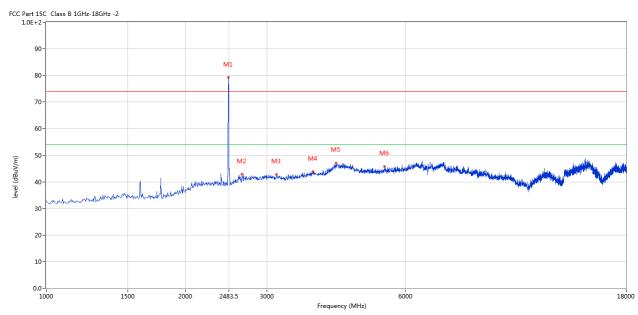
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	79.23	-3.57	114.0	-34.77	Peak	324.00	100	Vertical	Pass
2	2648.588	42.95	-3.15	74.0	-31.05	Peak	13.00	100	Vertical	Pass
3	3149.963	42.73	-2.08	74.0	-31.27	Peak	304.00	100	Vertical	Pass
4	3774.556	43.79	0.17	74.0	-30.21	Peak	314.00	100	Vertical	Pass
5	4237.691	47.12	1.69	74.0	-26.88	Peak	113.00	100	Vertical	Pass
6	5401.900	45.80	3.71	74.0	-28.20	Peak	18.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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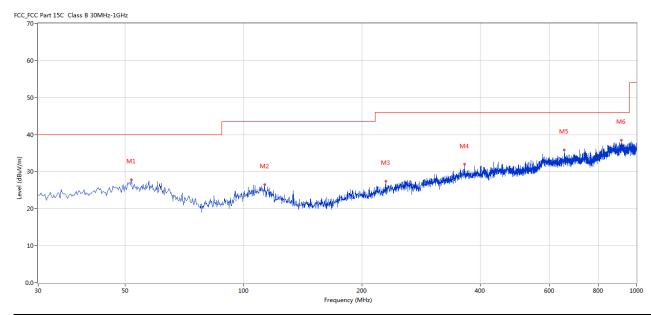


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	51.820	27.81	-4.86	40.0	12.19	Peak	135.00	100	Horizontal	Pass
2	113.157	26.53	-6.38	43.5	16.97	Peak	207.00	100	Horizontal	Pass
3	230.012	27.40	-5.66	46.0	18.60	Peak	258.00	100	Horizontal	Pass
4	364.809	32.06	-1.77	46.0	13.94	Peak	13.00	100	Horizontal	Pass
5	654.281	35.89	2.08	46.0	10.11	Peak	276.00	100	Horizontal	Pass
6	915.631	38.49	5.43	46.0	7.51	Peak	328.00	100	Horizontal	Pass

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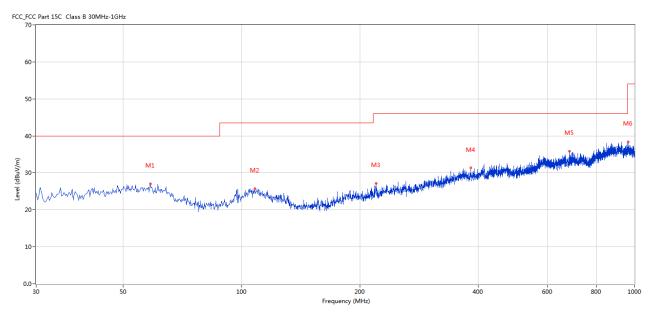


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	58.608	27.00	-5.11	40.0	13.00	Peak	24.00	100	Vertical	Pass
2	108.065	25.77	-5.99	43.5	17.73	Peak	66.00	100	Vertical	Pass
3	219.830	27.18	-6.07	46.0	18.82	Peak	115.00	100	Vertical	Pass
4	383.477	31.31	-2.02	46.0	14.69	Peak	61.00	100	Vertical	Pass
5	683.132	35.90	1.69	46.0	10.10	Peak	92.00	100	Vertical	Pass
6	962.907	38.31	5.25	54.0	15.69	Peak	48.00	100	Vertical	Pass

Date: 2025-09-11

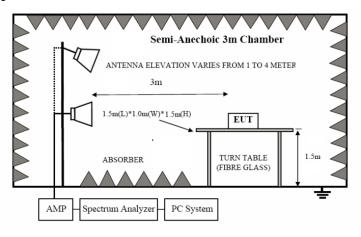


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor.1-2023. 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.

The report refers only to the sample tested and does not apply to the bulk.

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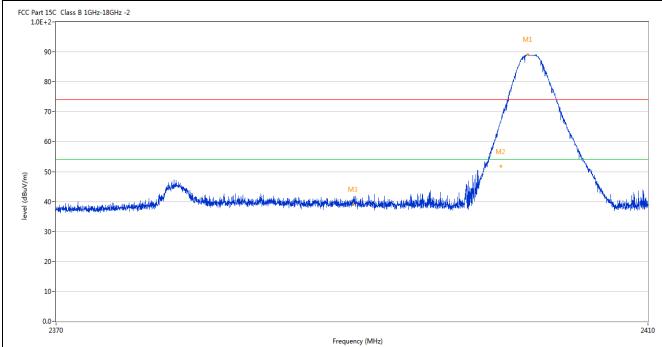
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7.6 Test Result

Product:	3 MODES CONNECTION BACKLIGHTING MECHANICAL KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



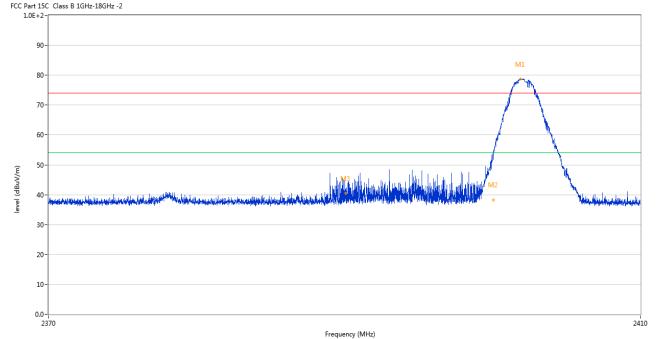
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.842	89.08	-3.57	74.0	15.08	Peak	157.00	100	Horizontal	N/A
2	2400.000	66.79	-3.57	74.0	-7.21	Peak	143.11	100	Horizontal	Pass
2**	2400.000	51.72	-3.57	54.0	-2.28	AV	143.11	100	Horizontal	Pass
3	2390.000	39.01	-3.53	74.0	-34.99	Peak	231.00	100	Horizontal	Pass

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	3 MODES CONNECTION		
Product:	BACKLIGHTING MECHANICAL	Detector	Vertical
	KEYBOARD		
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
FCC Part 15C Class B 1GHz-18GHz -2			
1.0E+2-			
90-			



No. Results Factor Limit Over Limit Detector Table ANT Verdict Frequency Height (MHz) (dBuV/m) (dB) (dBuV/m) (dB) (o) (cm) Peak 1 2401.842 78.65 -3.57 74.0 4.65 332.00 100 Vertical N/A 2400.000 53.04 -3.57 74.0 -20.96 Peak 2 343.00 100 Vertical Pass 2400.000 38.27 -3.57 54.0 -15.73 ΑV 343.00 100 Vertical **Pass** 3 2390.000 40.45 -3.53 74.0 -33.55 Peak 334.50 100 Vertical Pass

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				ONNECTIO						
Product:		BACKI	BACKLIGHTING MECHANICAL		ICAL	Polarity			Horizontal	
			KEYBOARD							
	Mode Keeping Transmitting					Test Voltage D			DC3.7V	I
Te	emperature	24 deg. C,				Hu	midity		56% RI	H
T	est Result:									
	art 15C Class B 1GHz-18G	Hz -2						1		
1	.UE+2-			M1						
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	20-									
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	0.0 - 2470			2483						2500
	1_	1		I	Frequency (MHz)				T <u>_</u>	Ι
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verd

No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480.167	88.10	-3.57	74.0	14.10	Peak	162.00	100	Horizontal	N/A
2	2483.500	50.90	-3.57	74.0	-23.10	Peak	145.57	100	Horizontal	Pass

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]					tor	Vertical						
Mode		Keeping Transmitting				Test Voltage		DC3.7V				
Te	emperature	_	24 de					8		56% RH		
	est Result:		Pas									
	rt 15C Class B 1GHz-18GH: E+2- 90- 80-	z -2	M1									
level (dBuV/m)	60 - 50 - 40 - 41 - 41 - 41 - 41 - 41 - 41 - 41 -	يعجونونون برياني فالزان		M2	المروية المالية والمراجعة والموافقة والمالية والمراجعة و	isi <u>ayaanida mid</u>	hodel it should be the sole of	h-fasad di direcci di di di	المراجعة	und Inharming		
level (dBuV/m)	30- 20-	udhin da kumanin nya na na		2483.		land an enterprise de la constante de la const	horida eta describir esta contra	de flade and sign of team of the best of the	inhidikhilorrakabehilak	2500		
	30 - 20 - 10 - 0.0	Results	Factor		5	Detector	Table	Height	ANT	1		
	30 - 20 - 10 - 2470		Factor (dB)	2483.	5 Frequency (MHz)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2500		
(ш/nngp) ava No.	30- 20- 10- 2470	Results		2483.: Limit	5 Frequency (MHz)		Table	Height	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		

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

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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 with gain 2.34dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

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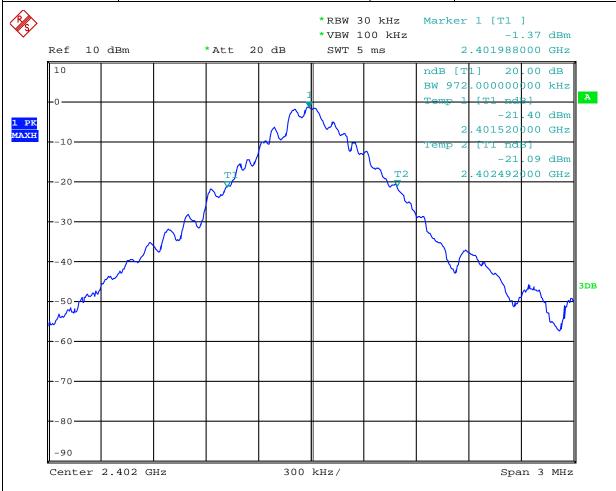
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Test Result

Product:	3 MODES CONNECTION BACKLIGHTING MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	972kHz		



Date: 10.SEP.2025 18:08:37

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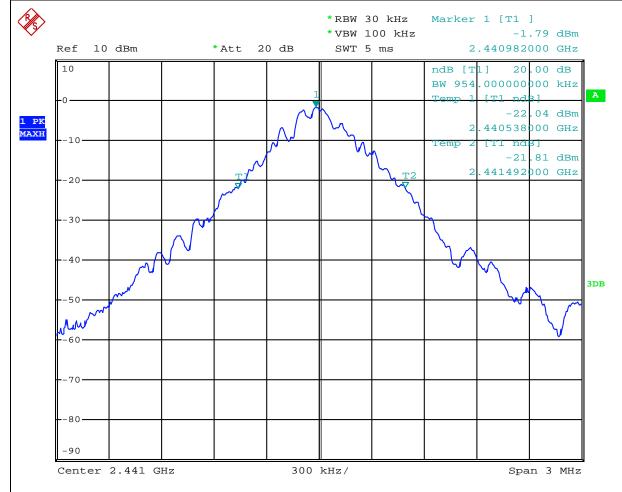
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	3 MODES CONNECTION		
Product:	BACKLIGHTING MECHANICAL	Test Mode:	Keep transmitting
	KEYBOARD		
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	954kHz		



Date: 10.SEP.2025 18:10:27

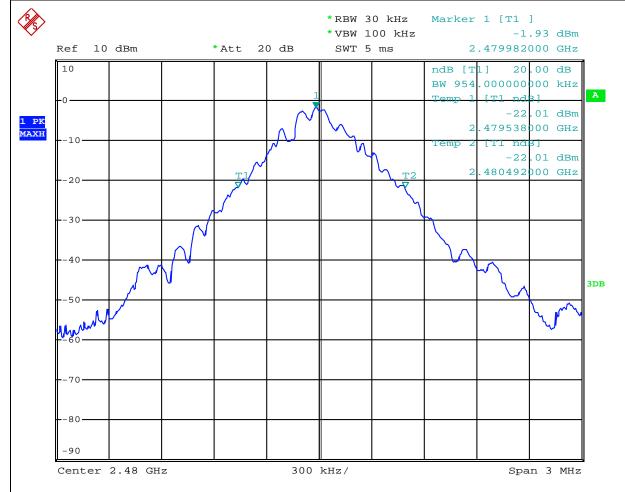
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	3 MODES CONNECTION		
Product:	BACKLIGHTING MECHANICAL	Test Mode:	Keep transmitting
	KEYBOARD		
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	954kHz		



Date: 10.SEP.2025 18:13:02

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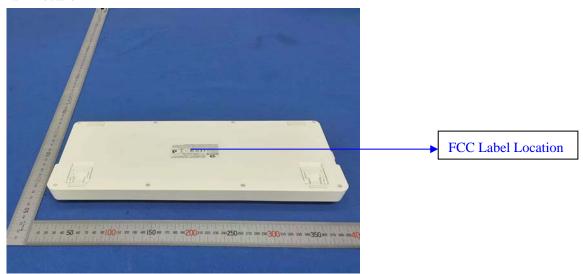
10.0 FCC ID Label

FCC ID: TUVET-7386A

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

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:



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11.0 Photo of testing

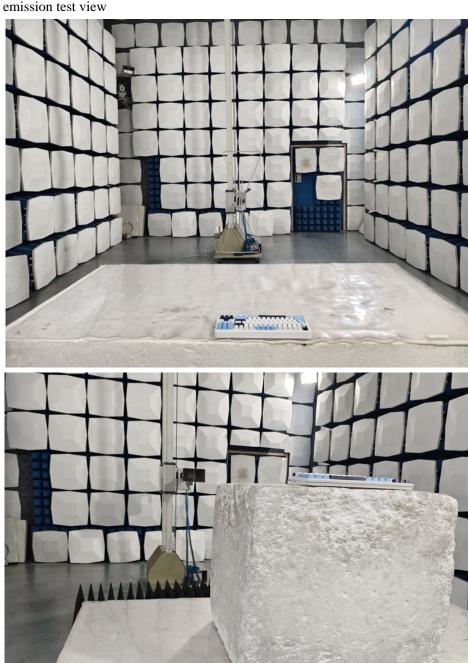
11.1 Conducted test View



Date: 2025-09-11



Radiated emission test view



11.2 Photographs - EUT

Please refer test report TWN2509386-01E

-- End of the report--

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