

Applicant: Eastern Times Technology Co., Ltd

Product: 3-MODES 98 KEY CASKET HOT-SWAPPABLE RGB

MECHANICAL

Model No.: K686AK-RGB-PRO, K686WB-RGB-PRO, ET-7199,

K688GB-RGB-PRO

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 of

electromagnetic compatibility

Approved By

Terry Tong

Terry Tang

Manager

Dated: September 14, 2024

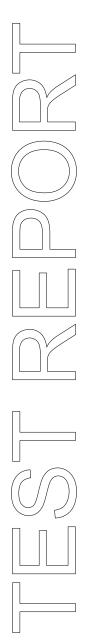
Results appearing herein relate only to the sample tested

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



Report No.: TW2409126-01E Page 2 of 43

Date: 2024-09-14



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.

Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada 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: 2024-09-14



Test Report Conclusion

Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration.	5
1.6	Test Uncertainty.	5
1.7	Test By	5
2.0	List of Measurement Equipment.	6
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
4.0	EUT Modification.	7
5.0	Power Line Conducted Emission Test.	8
5.1	Schematics of the Test.	8
5.2	Test Method and Test Procedure.	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition.	9
5.5	Conducted Emission Limit.	9
5.6	Test Result.	9
6.0	Radiated Emission test.	12
5.1	Test Method and Test Procedure.	12
5.2	Configuration of the EUT	13
5.3	EUT Operation Condition.	13
5.4	Radiated Emission Limit	13
5.5	Test Result.	15
7.0	Band Edge	23
7.1	Test Method and Test Procedure.	23
7.2	Radiated Test Setup.	23
7.3	Configuration of the EUT.	23
7.4	EUT Operating Condition.	23
7.5	Band Edge Limit.	23
7.6	Band Edge Test Result.	24
8.0	Antenna Requirement	28
9.0	20dB bandwidth measurement.	29
10.0	FCC ID Label	32

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Date: 2024-09-14



Page 4 of 43

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 Sates

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 98 KEY CASKET HOT-SWAPPABLE RGB MECHANICAL

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: K686AK-RGB-PRO

Additional Model Name K686WB-RGB-PRO, ET-7199, K688GB-RGB-PRO

Rating: Input: DC5V, 500mA or DC3.7V, 120mA

Battery DC3.7V, 3000mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2405-2475MHz

Channel List (Unit: MHz): 2405, 2463, 2441, 2426, 2408, 2466, 2445, 2422, 2414, 2471, 2459, 2433,

2419, 2475, 2453, 2447

Hardware Version: 7194-A TX V1

Software Version: 8012

Serial No.: RDK686AK-RGB-PRO24060600619

Antenna Designation PCB antenna with gain 2.34dBi Max (Get from the antenna specification)

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Report No.: TW2409126-01E Page 5 of 43

Date: 2024-09-14



1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2024-09-10 to 2024-09-14

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

Page 6 of 43

Report No.: TW2409126-01E

Date: 2024-09-14



2.0 Test Equipment								
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date			
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11			
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11			
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11			
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11			
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17			
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11			
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17			
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17			
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11			
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11			
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17			
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25			
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11			
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11			
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11			
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11			
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11			
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11			
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11			
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11			
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11			
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11			
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11			

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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Page 7 of 43

Report No.: TW2409126-01E

Date: 2024-09-14



3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

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

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

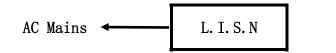
Date: 2024-09-14



5. Power Line Conducted Emission Test

5.1 Schematics of the test







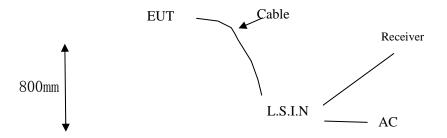
Load

EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50 uH as specified by section 5.1 of ANSI C63.4 -2014.

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



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

16 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
3-MODES 98 KEY CASKET HOT-SWAPPABLE RGB MECHANICAL	Eastern Times Technology Co., Ltd	K686AK-RGB-PRO, K686WB-RGB-PRO, ET-7199, K688GB-RGB-PRO	TUVET-7194A

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Report No.: TW2409126-01E Page 9 of 43

Date: 2024-09-14



B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

- 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 μ V)					
(MHz)	Quasi-peak Level	Ave ag 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 ~ 0.00	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:

Pass

Date: 2024-09-14



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

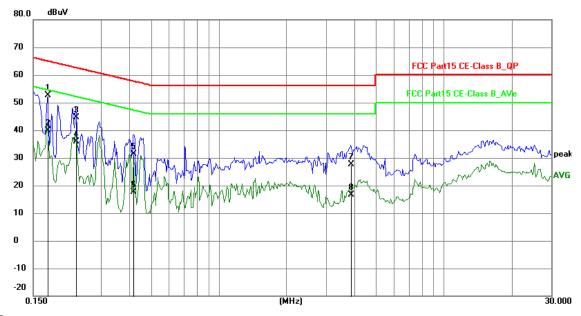
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

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	0.1734	42.93	9.77	52.70	64.80	-12.10	QP	Р
2	0.1734	30.18	9.77	39.95	54.80	-14.85	AVG	Р
3	0.2319	34.89	9.75	44.64	62.38	-17.74	QP	Ъ
4	0.2319	26.10	9.75	35.85	52.38	-16.53	AVG	Р
5	0.4191	21.73	9.76	31.49	57.47	-25.98	QP	Р
6	0.4191	7.92	9.76	17.68	47.47	-29.79	AVG	П
7	3.8658	17.78	9.88	27.66	56.00	-28.34	QP	Р
8	3.8658	6.72	9.88	16.60	46.00	-29.40	AVG	Р

Date: 2024-09-14



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

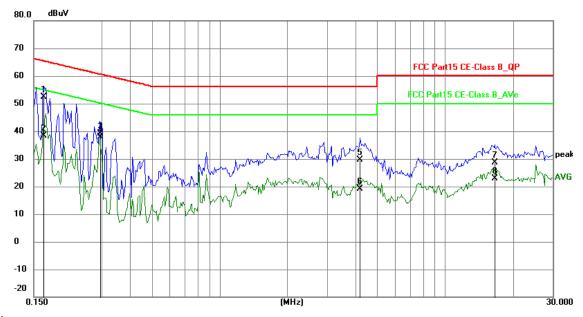
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

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	0.1655	42.64	9.77	52.41	65.18	-12.77	QP	Р
2	0.1655	28.70	9.77	38.47	55.18	-16.71	AVG	Р
3	0.2943	29.34	9.76	39.10	60.40	-21.30	QP	П
4	0.2943	28.03	9.76	37.79	50.40	-12.61	AVG	Р
5	4.1934	19.63	9.89	29.52	56.00	-26.48	QP	Р
6	4.1934	9.15	9.89	19.04	46.00	-26.96	AVG	А
7	16.5798	18.05	10.47	28.52	60.00	-31.48	QP	Р
8	16.5798	12.51	10.47	22.98	50.00	-27.02	AVG	Р

Page 12 of 43

Date: 2024-09-14



6 Radiated Emission Test

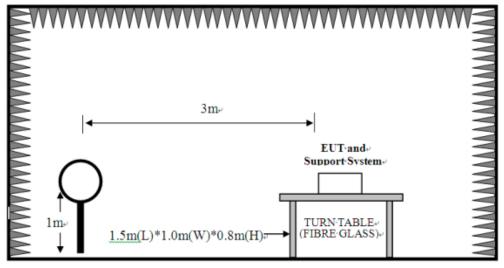
6.1 Test Method and test Procedure:

Report No.: TW2409126-01E

- (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) 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 C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (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

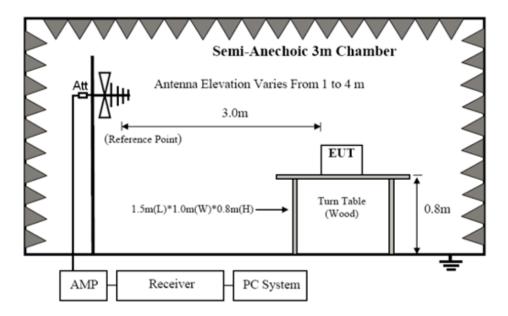
For radiated emissions from 9kHz to 30MHz



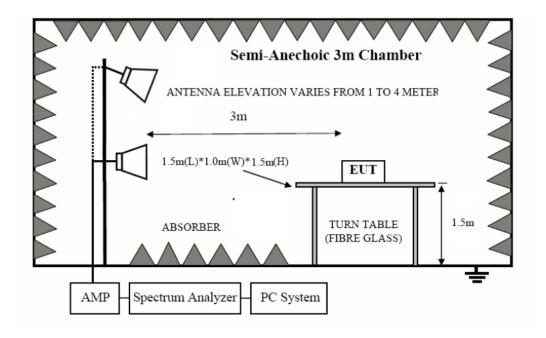
For radiated emissions from 30MHz to1GHz

Date: 2024-09-14





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.

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Report No.: TW2409126-01E Page 14 of 43

Date: 2024-09-14



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:

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

Fundamental Frequency	Field Stre	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/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
21 -960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF 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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 6. Battery full charged during tests.

Report No.: TW2409126-01E Page 15 of 43

Date: 2024-09-14

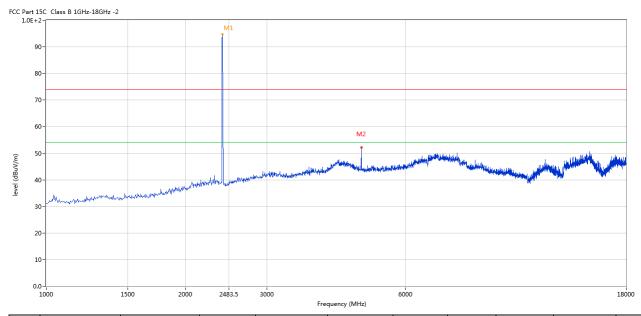


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2405MHz

Horizontal



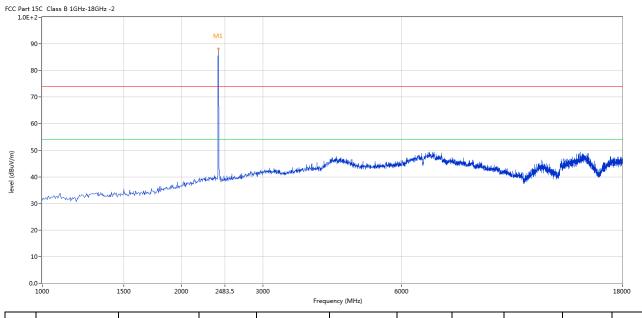
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2405	94.80	-3.57	114.0	-19.20	Peak	68.00	100	Horizontal	Pass
1**	2405	85.97	-3.57	94.0	-8.03	AV	68.00	100	Horizontal	Pass
2	4807.048	52.22	3.13	74.0	-21.78	Peak	94.00	100	Horizontal	Pass

Report No.: TW2409126-01E Page 16 of 43

Date: 2024-09-14



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2405	88.17	-3.57	114.0	-25.83	Peak	275.00	100	Vertical	Pass

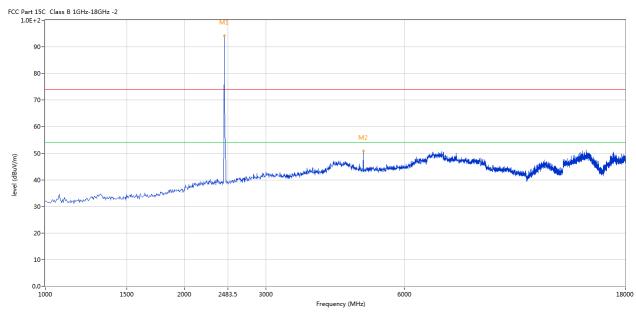
Report No.: TW2409126-01E Page 17 of 43

Date: 2024-09-14



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

Horizontal



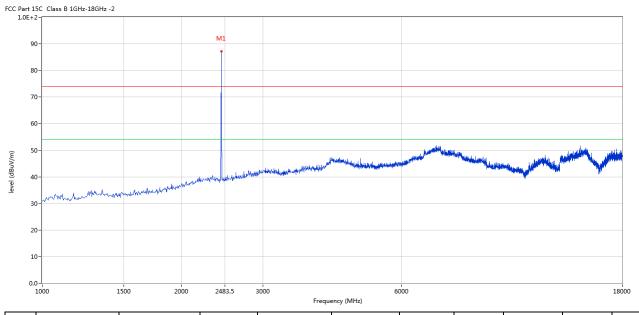
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	94.10	-3.57	114.0	-19.90	Peak	85.00	100	Horizontal	Pass
1**	2441	85.32	-3.57	94.0	-8.68	AV	85.00	100	Horizontal	Pass
2	4879.280	50.82	3.20	74.0	-23.18	Peak	80.00	100	Horizontal	Pass

Report No.: TW2409126-01E Page 18 of 43

Date: 2024-09-14



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	87.12	-3.57	114.0	-26.88	Peak	92.00	100	Vertical	Pass

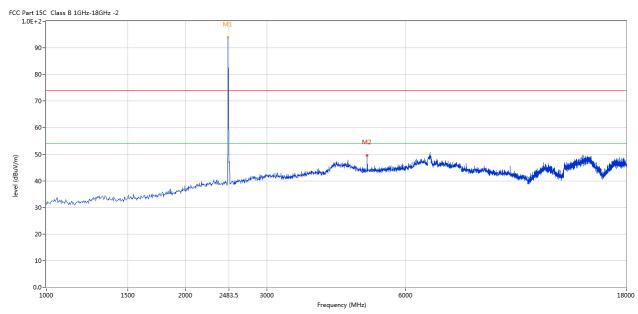
Report No.: TW2409126-01E Page 19 of 43

Date: 2024-09-14



Please refer to the following test plots for details: High Channel-2475MHz

Horizontal



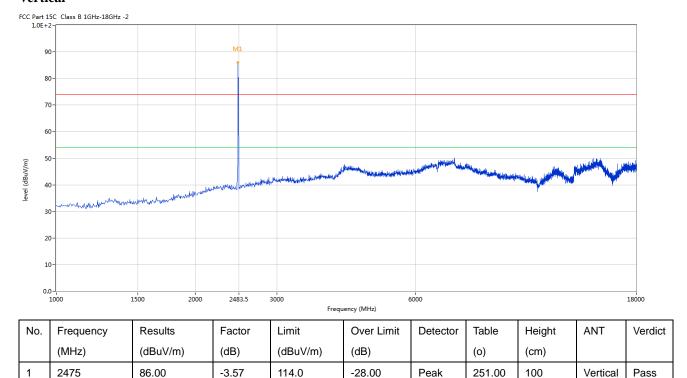
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2475	94.01	-3.57	114.0	-19.99	Peak	297.00	100	Horizontal	Pass
1**	2475	84.23	-3.57	94.0	-9.77	AV	297.00	100	Horizontal	Pass
2	4951.512	49.54	3.34	74.0	-24.46	Peak	91.00	100	Horizontal	Pass

Page 20 of 43

Report No.: TW2409126-01E Date: 2024-09-14



Vertical



Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

Report No.: TW2409126-01E Page 21 of 43

Date: 2024-09-14

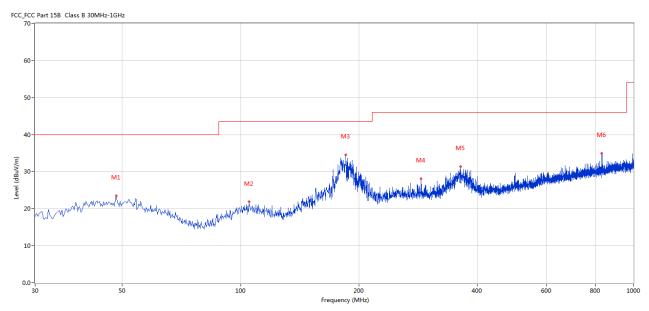


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	48.183	23.47	-11.26	40.0	16.53	Peak	316.00	100	Horizontal	Pass
2	105.156	21.83	-13.23	43.5	21.67	Peak	237.00	100	Horizontal	Pass
3	185.404	34.48	-14.87	43.5	9.02	Peak	272.00	100	Horizontal	Pass
4	288.198	28.12	-11.26	46.0	17.88	Peak	20.00	100	Horizontal	Pass
5	363.112	31.33	-9.54	46.0	14.67	Peak	353.00	100	Horizontal	Pass
6	829.565	34.92	-2.89	46.0	11.08	Peak	348.00	100	Horizontal	Pass

Report No.: TW2409126-01E Page 22 of 43

Date: 2024-09-14

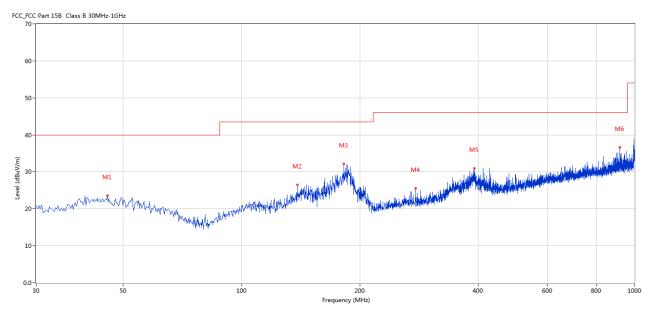


Radiated Emission In Vertical (30MHz----1000MHz)

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	45.516	23.60	-11.39	40.0	16.40	Peak	90.00	100	Vertical	Pass
2	138.613	26.48	-17.25	43.5	17.02	Peak	271.00	100	Vertical	Pass
3	182.252	32.22	-15.00	43.5	11.28	Peak	182.00	100	Vertical	Pass
4	277.046	25.53	-11.54	46.0	20.47	Peak	314.00	100	Vertical	Pass
5	391.477	30.96	-8.88	46.0	15.04	Peak	295.00	100	Vertical	Pass
6	917.328	36.63	-1.94	46.0	9.37	Peak	326.00	100	Vertical	Pass

Date: 2024-09-14

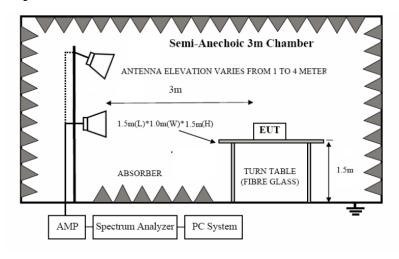


7. Band Edge

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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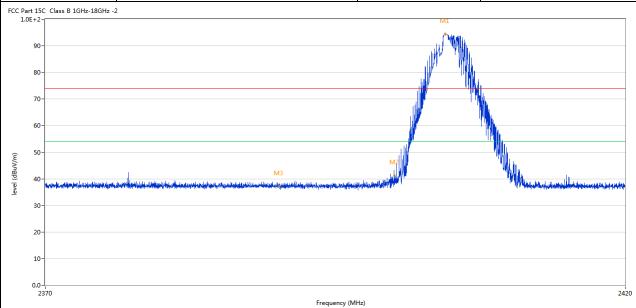
Report No.: TW2409126-01E Page 24 of 43

Date: 2024-09-14



7.6 Test Result

Product:	3-MODES 98 KEY CASKET HOT-SWAPPABLE RGB MECHANICAL	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	2404.366	94.47	-3.57	74.0	20.47	Peak	65.00	100	Horizontal	N/A
	2	2400.000	41.18	-3.57	74.0	-32.82	Peak	66.25	100	Horizontal	Pass
	3	2390.000	37.21	-3.53	74.0	-36.79	Peak	227.33	100	Horizontal	Pass
L	ŭ		0	0.00		330	. 561				. 40

Page 25 of 43 Report No.: TW2409126-01E

Date: 2024-09-14



		3-МОГ	ES 98 KE	Y CASKET						
1	Product:		SWAPPA		I	Detector		V	ertical	
	roddet.		MECHAN]			Setector		•	crticui	
	Mode		eping Tran		Te	st Voltage		D	C3.7V	
Te	mperature		24 deg.		+	Humidity			5% RH	
	est Result:		Pass	·						
	15C Class B 1GHz-18GHz	-2			<u> </u>					
1.0E+	-2-									
9	90-						M1			
8	30-						Z''YIII			
							`¶\\			
/	70-									
6	50-						· · · · · · · · · · · · · · · · · · ·	NL.		
, 5	50-						'			
4				M3		M2		· · · · · · · · · · · · · · · · · · ·		
4		idhich chideile d abhasan hair an bir	hindred many markety hip	والمتعادية		ALL DESCRIPTION OF THE PERSON		Marie Jespesen	the state of the s	A DESCRIPTION OF THE PARTY OF T
	30-									
3	80-									
2	20-									
2										
3 2 1	0-									
3 2 1	20-			1	Frequency (MHz)					2
3 2 1	0-	Results	Factor	Limit	Frequency (MHz) Over Limit	Detector	Table	Height	ANT	Verd
3 2 1	.0- .0- .2370	Results (dBuV/m)	Factor (dB)	T	T	Detector	Table (o)	Height (cm)	ANT	1
3 2 1	20- 10- 2370 Frequency			Limit	Over Limit	Detector Peak			ANT Vertical	1
3 2 1 0. No.	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)		(o)	(cm)		Verd

Page 26 of 43 Report No.: TW2409126-01E

Date: 2024-09-14



	Product:			KEY CASKI PABLE RGB ANICAL		Pola	rity		Horizonta	al
	Mode	I	Keeping Tr	ransmitting		Test V	oltage		DC3.7V	
Τє	emperature		24 de	eg. C,		Hum	idity		56% RH	
To	est Result:		Pa	iss		-	-			
C Part	15C Class B 1GHz-18GHz	:-2		M1						
8	90-				4.					
m/angp) iaaai	50	Uddy-wighte widdigter nepassy thempton from from the wight	MA HA	1117	Menande	M2	nadalisteraksi edileriksi edileri	ng kalifan hadif ki saga ki sa	ida, da da garan kaji da mada ka di mada ka	**************************************
III/Ango) Isaasi	40-	lidely-vigita-visitifiquasy-vigitaries fond vigit		1117	Marine.	M2	nagishi pangundan	yakaji nda kalapata kalapata ka	ida, de cada esta de parte de la cada esta de La cada esta de la cada esta d	of the section of the
III/anan) Isasi	40	i kali, parapika minisipipa na pangaban dan da bapih		1117	Mendanda		nad jah kisterephisereski konstitut	નુ એક્ષું લ્યા પ્લાફિક હેલ્લા કરી નાહ કરી હતા.	ida, kristrisiyaan kifistood aasla ahala	
III/anan) Isasi	40	દાંતનું નુપાયનીત સાલકોરોનેલ અન્ય પાયની તાલક તેના તો પ્રત્યો		1117	Frequency (MHz)	M2	na jednjeve korenikovetka	geskijen kreitje di nage il men et da	ida, da da galanda ji da ada da	2500
III/anan) Isasi	40	Results	Factor	Limit			Table	Height	ANT	ı
	40	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)	2483.5	and the second	Height (cm)	ANT	ı
	30- 20- 10- 2460 Frequency				Over	2483.5	Table	_	ANT Horizontal	2500 Verdic

Page 27 of 43

Report No.: TW2409126-01E

Date: 2024-09-14



Product:		3-MODES 98 KEY CASKET HOT-SWAPPABLE RGB MECHANICAL				Detector		Vertical		
	Mode	Ke	eping Tran	nsmitting	Te	st Voltage		D	C3.7V	
Те	emperature		24 deg.	C,	I.	Iumidity		56	5% RH	
T	est Result:		Pass							
CC Part	15C Class B 1GHz-18GHz	-2								
level (dBuV/m)	30	n kipati kandu ka Manaya pana di malakina na		M1	M	2 Milyta hydraformas vissas	of the Spine of th	konfestingel (dentemperon descrip	nakina daji <mark>nakina da</mark> ini	rahdon/4
	10- 1.0- 2460			Fi	2483 requency (MHz)	3.5				2500
	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdic
No.	1	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
No.	(MHz)			1	44.70	Peak	110.00	100	Vertical	
No.	(MHz) 2475.606	85.73	-3.57	74.0	11.73	reak	110.00	100	vertical	N/A

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

Date: 2024-09-14



Page 28 of 43

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 2.34dBi Max. It fulfills the requirement of this section. Test Result: Pass

Page 29 of 43

Report No.: TW2409126-01E

Date: 2024-09-14



	3-MODES 98						
Product:	HOT-SWAF	PABLE RGE	3	Test Mo	ode:	Kee	p transmitting
	MECH						
Mode	Keeping 7	Keeping Transmitting				DC3.7V	
Temperature	24 d	24 deg. C,				56% RH PK 	
Test Result:	Pass			Detector 			
20dB Bandwidth	2.50						
			* RBW 1	00 kHz	Mark	er 1 [T1]
*			* VBW 3				8.65 dBm
Ref 10 dB	m *Att	20 dB	SWT 2	.5 ms	1-1-		1026 GHz
10					ndB BW	1	0.00 dB 2821 MHz
0					Temp	1 [T1 no	B] A
1 PK		1					3.64 dBm 3718 GHz
MAXH10		X.	m		Temp		l II
			1	\land			3.31 dBm
20	\int		\sim	\sim		2.40608	1731 GHz
20	m1 /				T2		
-30	T1 V				The state of the s		
30					M		
740					\setminus		
							3DE
-50							Juny /
-60							
-70							
-80							
-90							
Center 2.4	Center 2.405 GHz 500 kHz/			Span 5 MHz			

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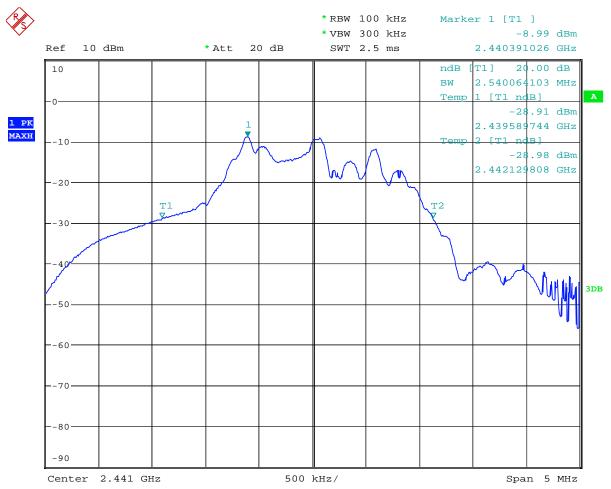
Page 30 of 43

Report No.: TW2409126-01E

Date: 2024-09-14



Product:	3-MODES 98 KEY CASKET HOT-SWAPPABLE RGB	Test Mode:	Keep transmitting	
Mode	MECHANICAL Keeping Transmitting	Test Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
20dB Bandwidth	2.540MHz			



Date: 14.SEP.2024 14:13:02

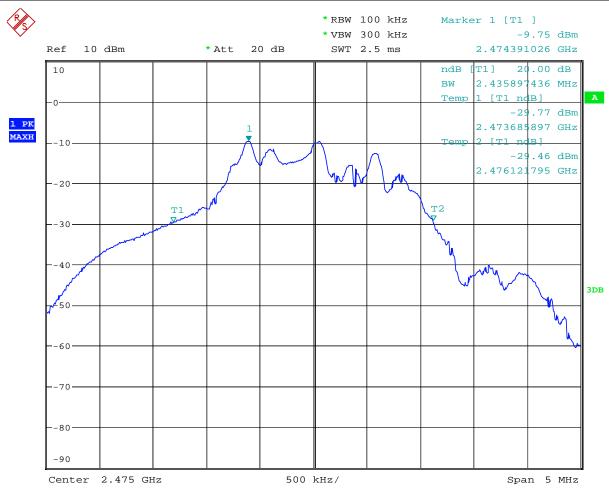
Page 31 of 43

Report No.: TW2409126-01E

Date: 2024-09-14



	3-MODES 98 KEY CASKET		Keep transmitting	
Product:	HOT-SWAPPABLE RGB	Test Mode:		
	MECHANICAL			
Mode	Keeping Transmitting	Test Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
20dB Bandwidth	2.436MHz			



Date: 14.SEP.2024 14:54:53

Report No.: TW2409126-01E Page 32 of 43

Date: 2024-09-14



10.0 FCC ID Label

FCC ID: TUVET-7194A

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:



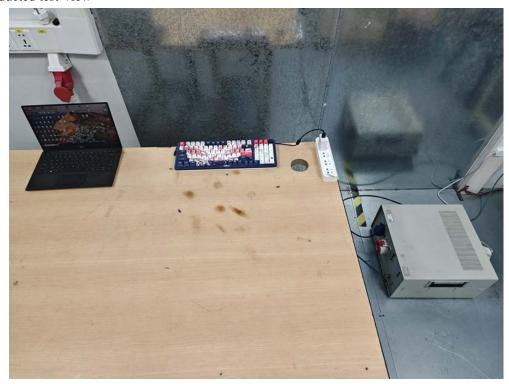
Page 33 of 43 Report No.: TW2409126-01E

Date: 2024-09-14



11.0 Photo of testing

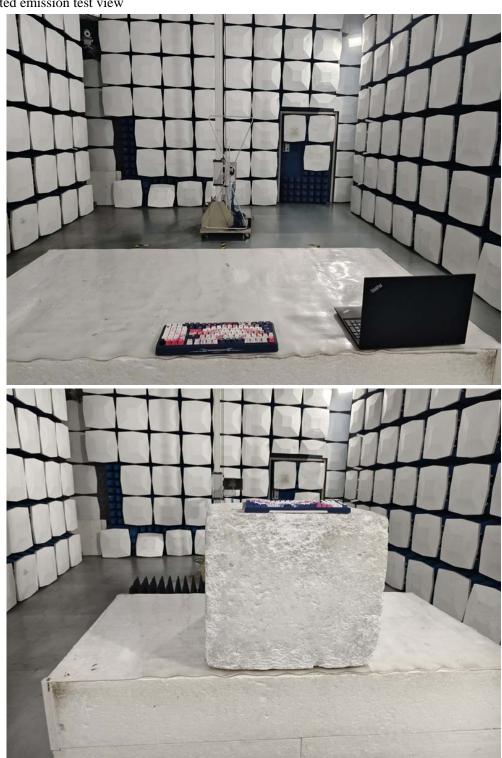
11.1 Conducted test View--



Date: 2024-09-14



Radiated emission test view



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Page 35 of 43

Report No.: TW2409126-01E

Date: 2024-09-14



11.2 Outside View-Keyboard





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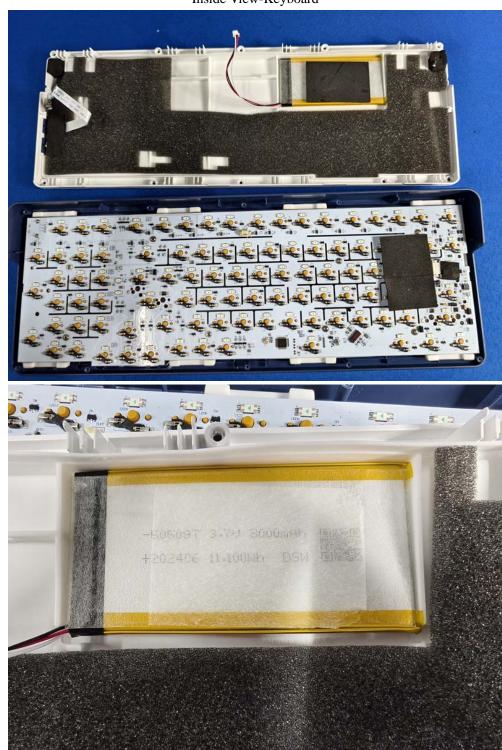
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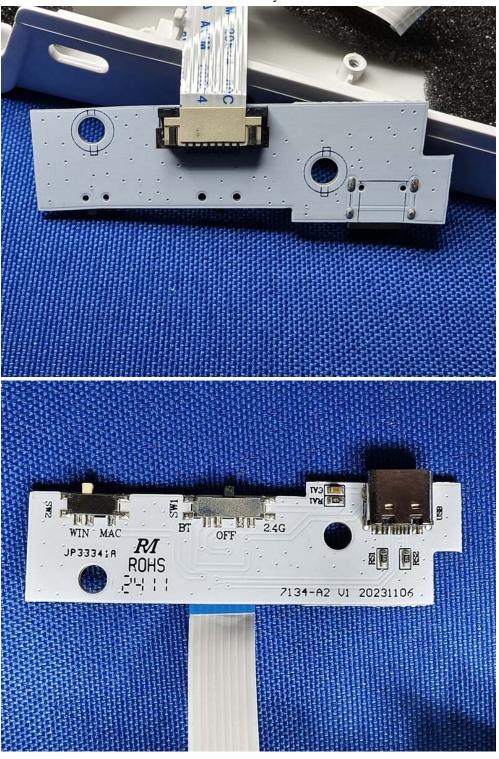
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Page 41 of 43

Report No.: TW2409126-01E

Date: 2024-09-14



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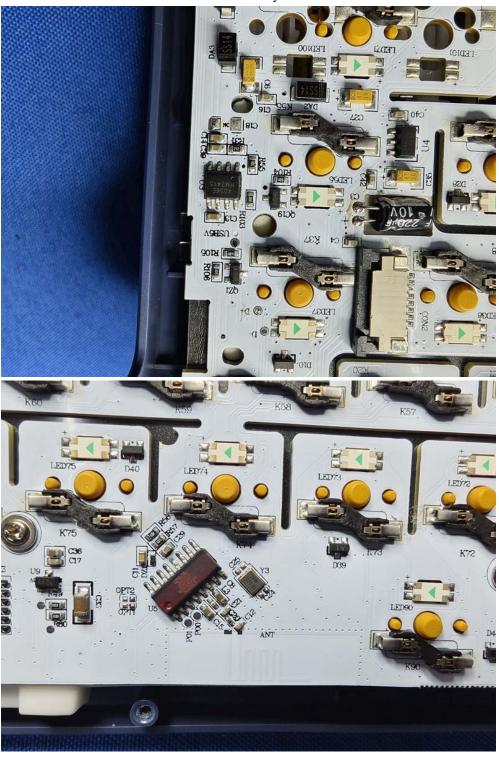
Page 42 of 43

Report No.: TW2409126-01E

Date: 2024-09-14



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