TEST REPORT

Report No.: TWN2505646-01E

Applicant: Eastern Times Technology Co.,Ltd

Product: WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED MECHANICAL KEYBOARD

Model No.: K709WBP-RGB-PRO, K709AK-RGB-PRO, ET-7145

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 Tang

Terry Tang

Manager

Dated: June 13, 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

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

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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
6.1	Test Method and Test Procedure……	12
6.2	Configuration of the EUT……	13
6.3	EUT Operation Condition……	13
6.4	Radiated Emission Limit……	13
6.5	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**……	33
11.0	**Photo of Test Setup and EUT View**……	34

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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:	WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED 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:	K709WBP-RGB-PRO
Additional Model Name	K709AK-RGB-PRO, ET-7145
Rating:	Input: DC5V, 640mA or DC3.7V, 120mA
Battery:	DC3.7V, 2500mAh Li-ion battery
Hardware Version:	7145-A TX V1
Software Version:	1F81
Serial No.:	RDK709WBP-RGB-PRO24121600603
Operation Frequency:	2403-2480MHz
Channel Number:	16
Channel List (Unit: MHz):	2403, 2424, 2441, 2461, 2414, 2435, 2450, 2470, 2409, 2429, 2455, 2475, 2419, 2445, 2465, 2480
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

2025-03-04 to 2025-06-13

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	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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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
FCC Part 15.215(c)	20dB bandwidth	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

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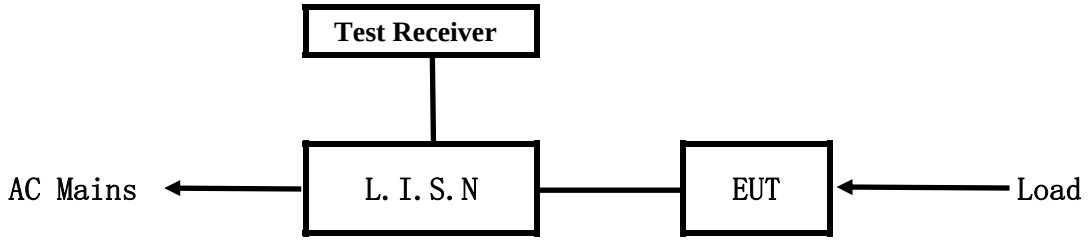
5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



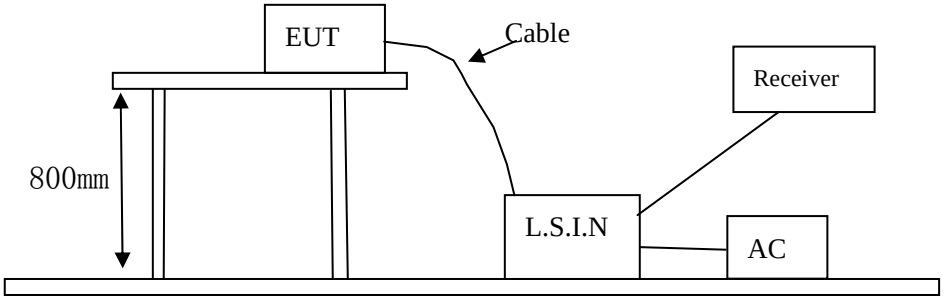
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013.The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED MECHANICAL KEYBOARD	Eastern Times Technology Co.,Ltd	K709WBP-RGB-PRO, K709AK-RGB-PRO, ET-7145	TUVET-7145A

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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;

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

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 (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ～ 0.50	66.0～56.0*	56.0～46.0*
0.50 ～ 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:

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

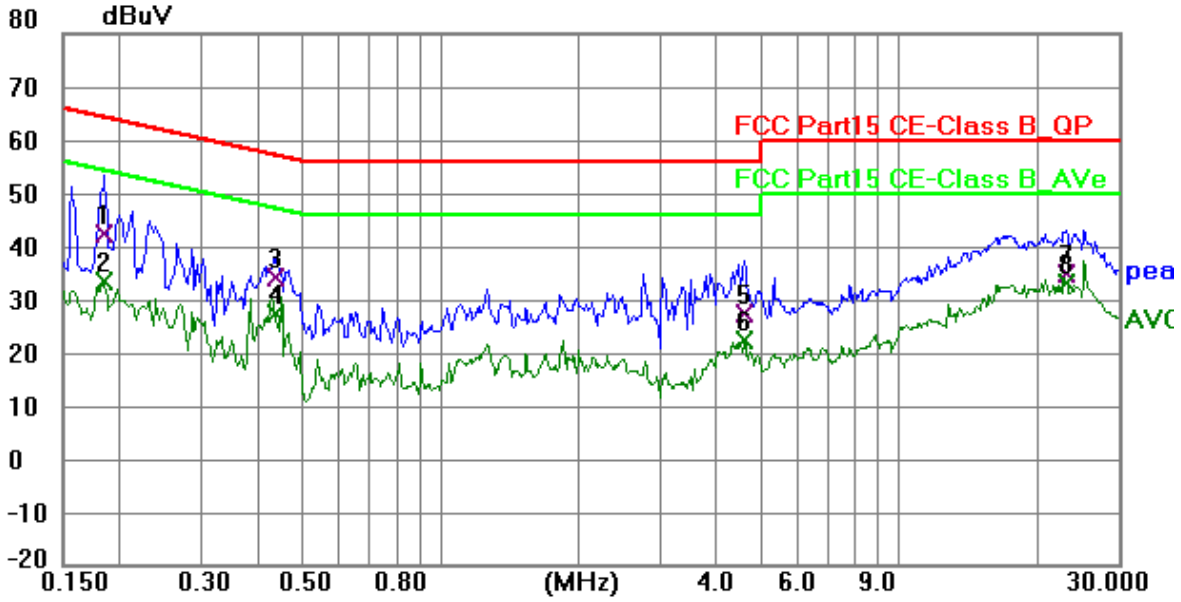
EUT Operating Environment

Temperature: 25℃ 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	0.1850	32.03	10.33	42.36	64.26	-21.90	QP	P
2	0.1850	23.13	10.33	33.46	54.26	-20.80	AVG	P
3	0.4347	23.76	10.38	34.14	57.16	-23.02	QP	P
4	0.4347	16.90	10.38	27.28	47.16	-19.88	AVG	P
5	4.6029	15.10	12.19	27.29	56.00	-28.71	QP	P
6	4.6029	10.29	12.19	22.48	46.00	-23.52	AVG	P
7	23.1864	19.14	15.74	34.88	60.00	-25.12	QP	P
8	23.1864	17.21	15.74	32.95	50.00	-17.05	AVG	P

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

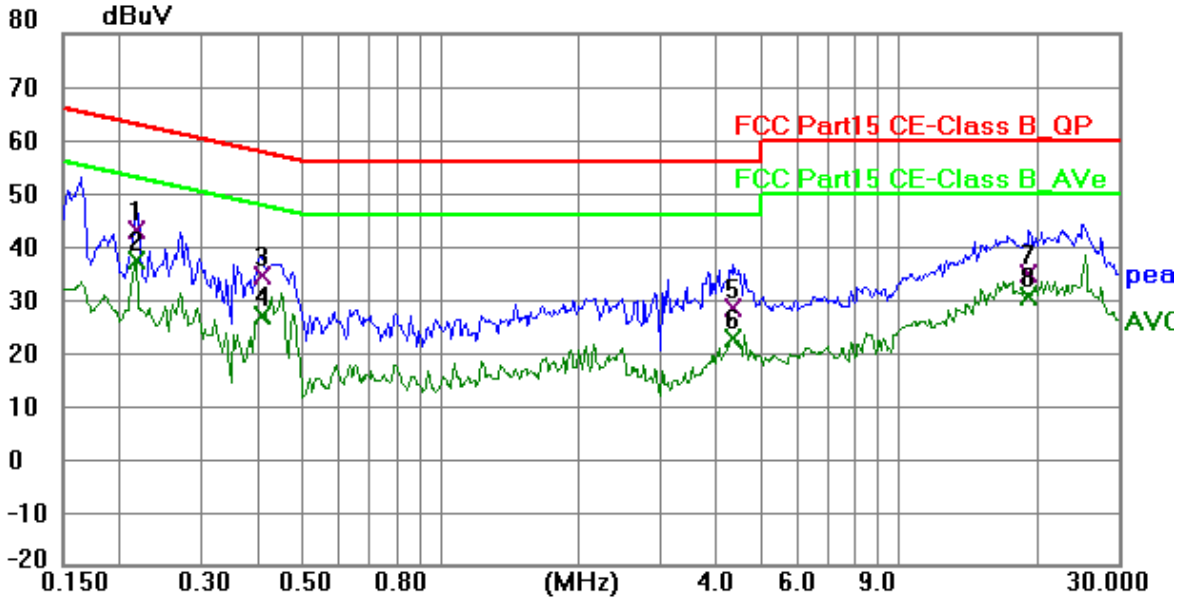
EUT Operating Environment

Temperature: 25℃ 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	0.2163	32.64	10.32	42.96	62.96	-20.00	QP	P
2	0.2163	27.06	10.32	37.38	52.96	-15.58	AVG	P
3	0.4074	24.15	10.38	34.53	57.70	-23.17	QP	P
4	0.4074	16.49	10.38	26.87	47.70	-20.83	AVG	P
5	4.3377	16.17	12.12	28.29	56.00	-27.71	QP	P
6	4.3377	10.71	12.12	22.83	46.00	-23.17	AVG	P
7	19.1927	18.63	16.23	34.86	60.00	-25.14	QP	P
8	19.1927	14.16	16.23	30.39	50.00	-19.61	AVG	P

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6 Radiated Emission Test

6.1 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) 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 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
	Peak	1MHz	10Hz	Average

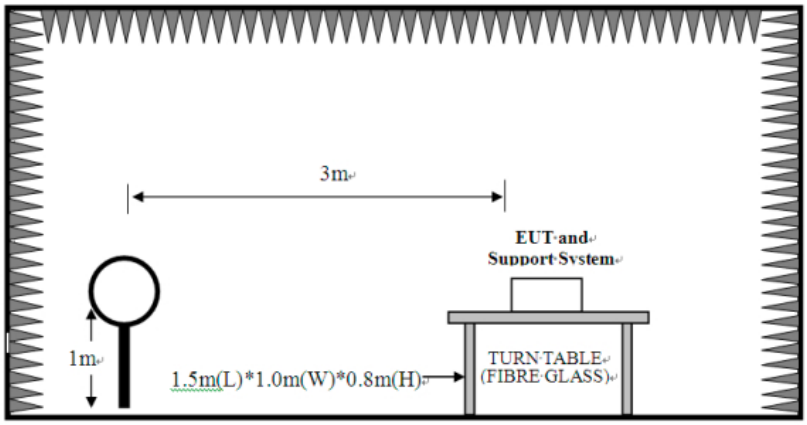
(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz).
Measurements were made at 3 meters.

(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



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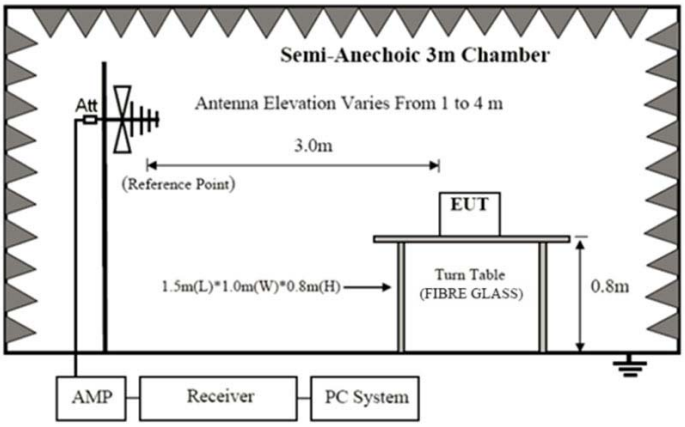
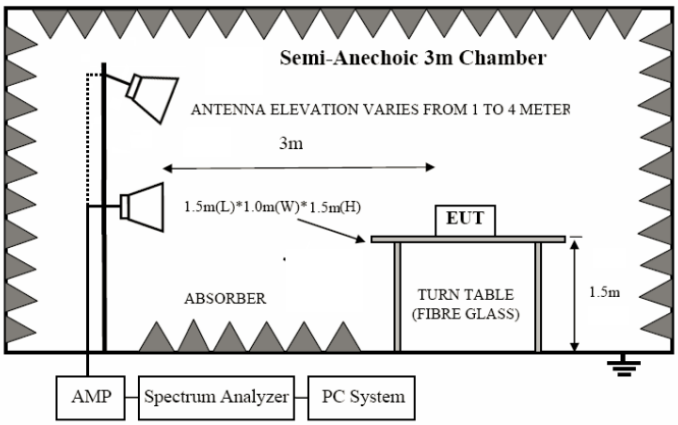
For radiated emissions from 30MHz to1GHz



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.

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

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Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	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 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 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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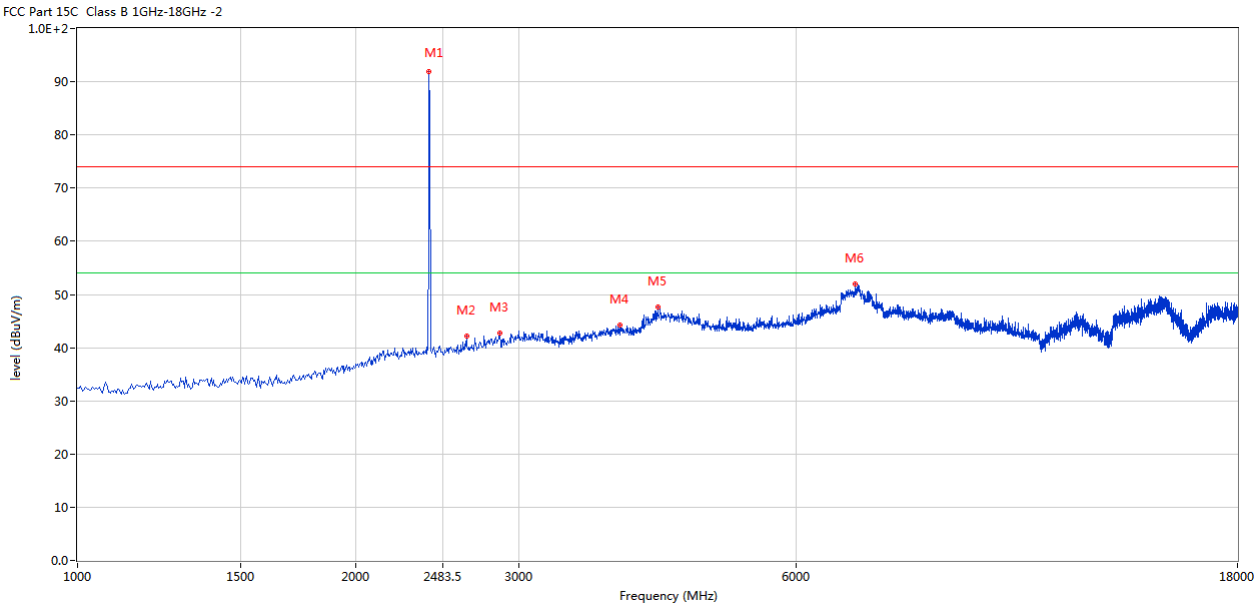
6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2403MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403	91.89	-3.57	114.0	-22.11	Peak	360.00	100	Horizontal	Pass
2	2635.841	42.17	-3.19	74.0	-31.83	Peak	14.00	100	Horizontal	Pass
3	2861.035	42.76	-2.68	74.0	-31.24	Peak	78.00	100	Horizontal	Pass
4	3868.033	44.17	0.65	74.0	-29.83	Peak	78.00	100	Horizontal	Pass
5	4246.188	47.63	1.71	74.0	-26.37	Peak	20.00	100	Horizontal	Pass
6	6948.513	51.96	7.78	74.0	-22.04	Peak	20.00	100	Horizontal	Pass

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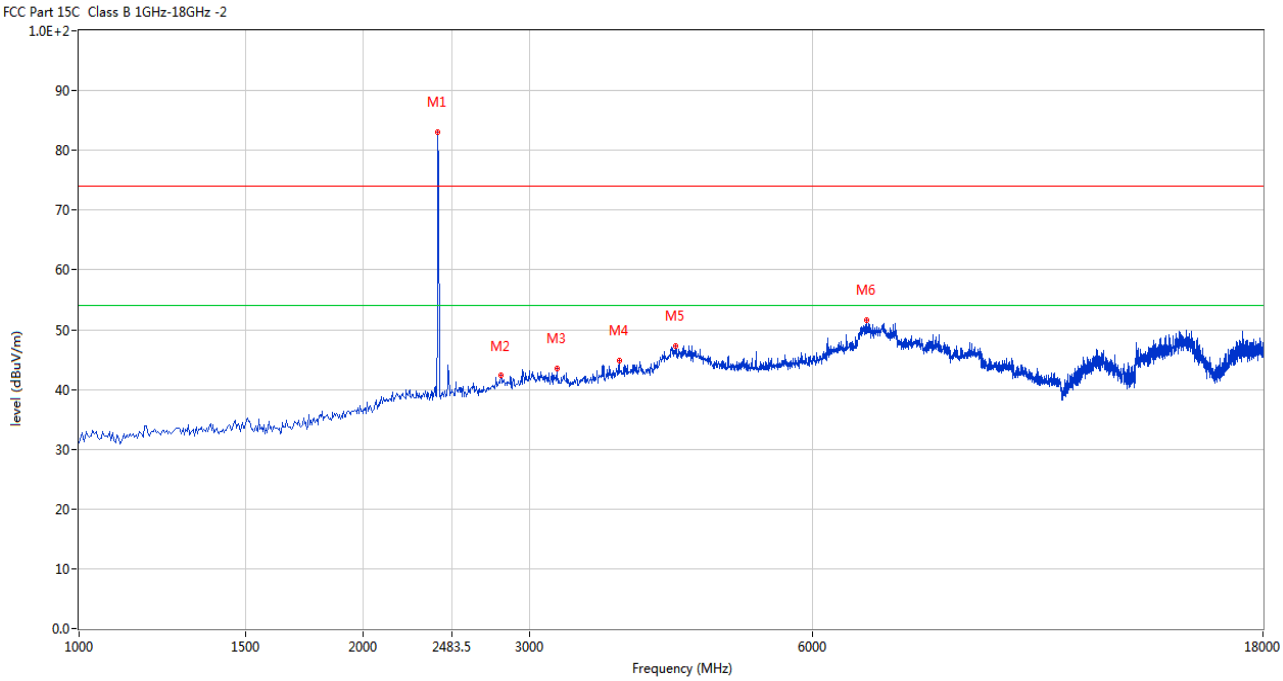
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403	83.06	-3.57	114.0	-30.94	Peak	110.00	100	Vertical	Pass
2	2801.550	42.40	-2.70	74.0	-31.60	Peak	315.00	100	Vertical	Pass
3	3209.448	43.44	-1.98	74.0	-30.56	Peak	230.00	100	Vertical	Pass
4	3740.565	44.88	-0.01	74.0	-29.12	Peak	1.00	100	Vertical	Pass
5	4288.678	47.29	1.81	74.0	-26.71	Peak	5.00	100	Vertical	Pass
6	6842.289	51.66	7.30	74.0	-22.34	Peak	321.00	100	Vertical	Pass

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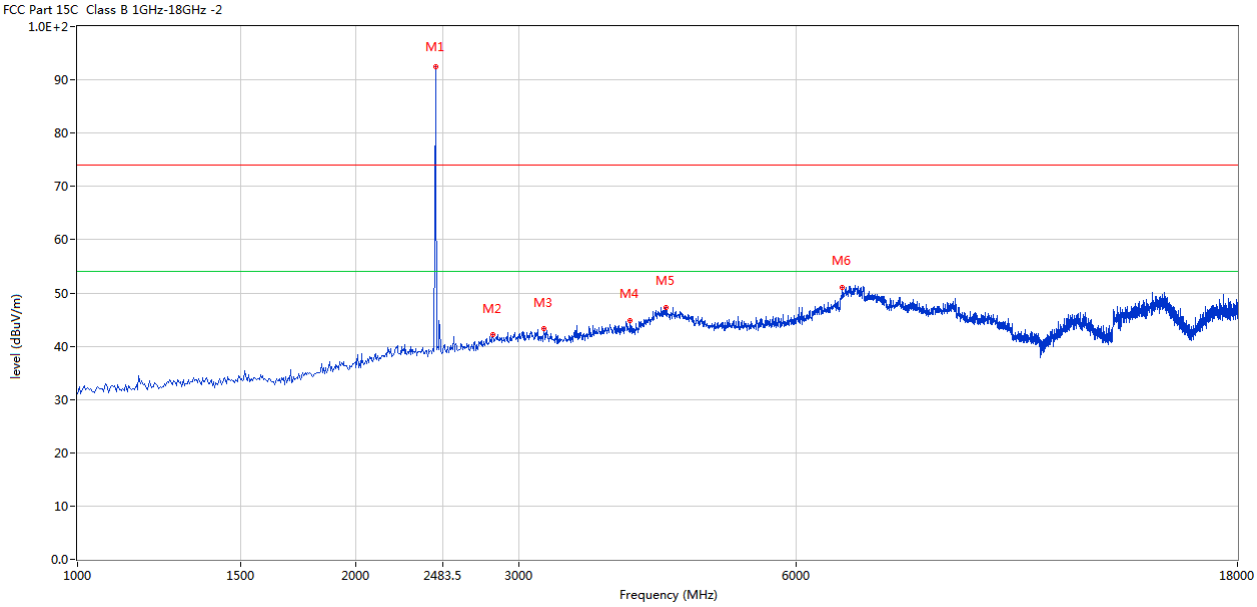
Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	92.52	-3.57	114.0	-21.48	Peak	195.00	100	Horizontal	Pass
2	2814.296	42.25	-2.69	74.0	-31.75	Peak	334.00	100	Horizontal	Pass
3	3196.701	43.35	-1.98	74.0	-30.65	Peak	107.00	100	Horizontal	Pass
4	3965.759	44.75	1.07	74.0	-29.25	Peak	80.00	100	Horizontal	Pass
5	4331.167	47.18	1.89	74.0	-26.82	Peak	38.00	100	Horizontal	Pass
6	6727.568	51.12	6.78	74.0	-22.88	Peak	148.00	100	Horizontal	Pass

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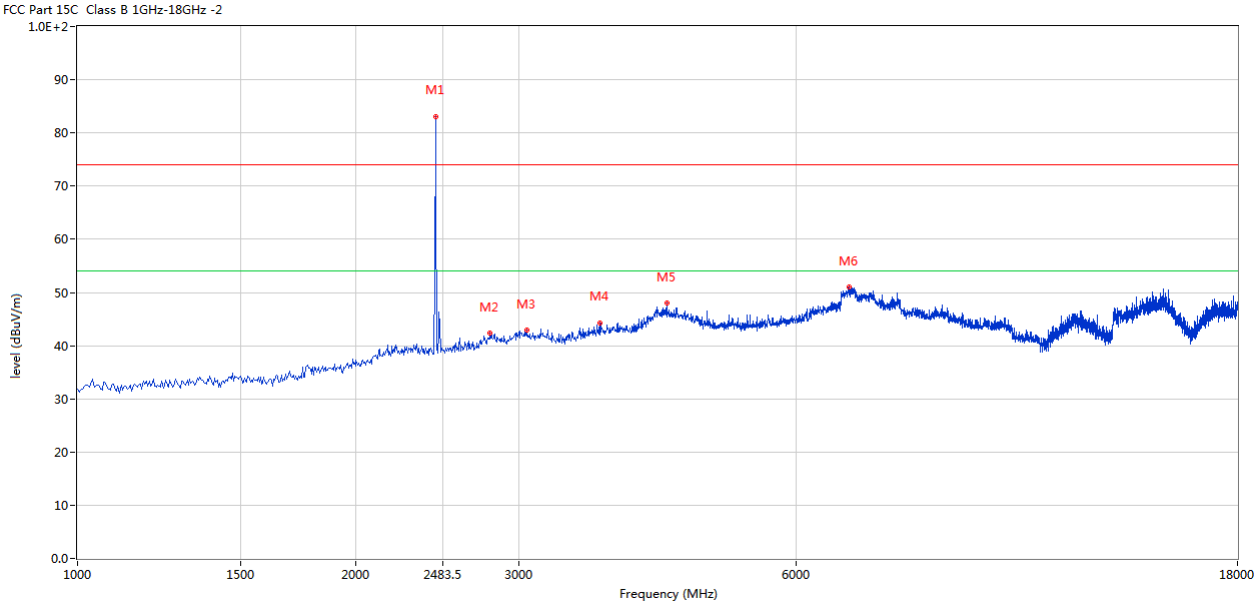
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	83.11	-3.57	114.0	-30.89	Peak	114.00	100	Vertical	Pass
2	2797.301	42.38	-2.70	74.0	-31.62	Peak	318.00	100	Vertical	Pass
3	3060.735	42.87	-2.37	74.0	-31.13	Peak	155.00	100	Vertical	Pass
4	3672.582	44.23	-0.33	74.0	-29.77	Peak	339.00	100	Vertical	Pass
5	4339.665	47.95	1.90	74.0	-26.05	Peak	57.00	100	Vertical	Pass
6	6842.289	51.04	7.30	74.0	-22.96	Peak	78.00	100	Vertical	Pass

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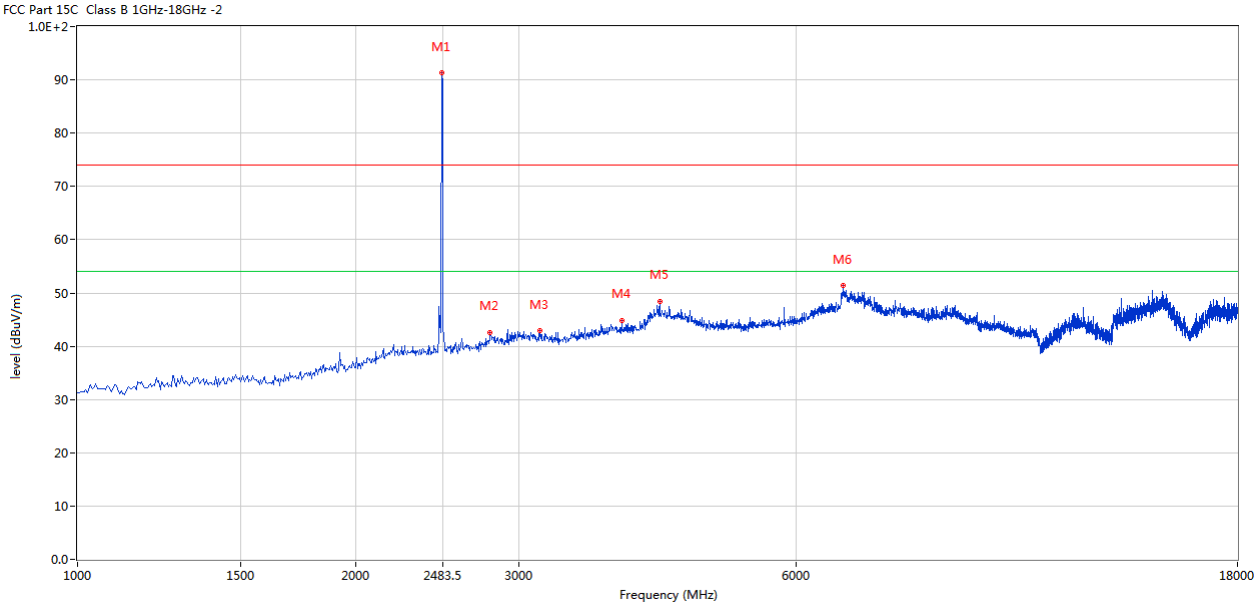
Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	91.42	-3.57	114.0	-22.58	Peak	0.00	100	Horizontal	Pass
2	2797.301	42.60	-2.70	74.0	-31.40	Peak	239.00	100	Horizontal	Pass
3	3162.709	42.90	-2.05	74.0	-31.10	Peak	329.00	100	Horizontal	Pass
4	3880.780	44.82	0.72	74.0	-29.18	Peak	1.00	100	Horizontal	Pass
5	4267.433	48.47	1.76	74.0	-25.53	Peak	355.00	100	Horizontal	Pass
6	6736.066	51.32	6.82	74.0	-22.68	Peak	127.00	100	Horizontal	Pass

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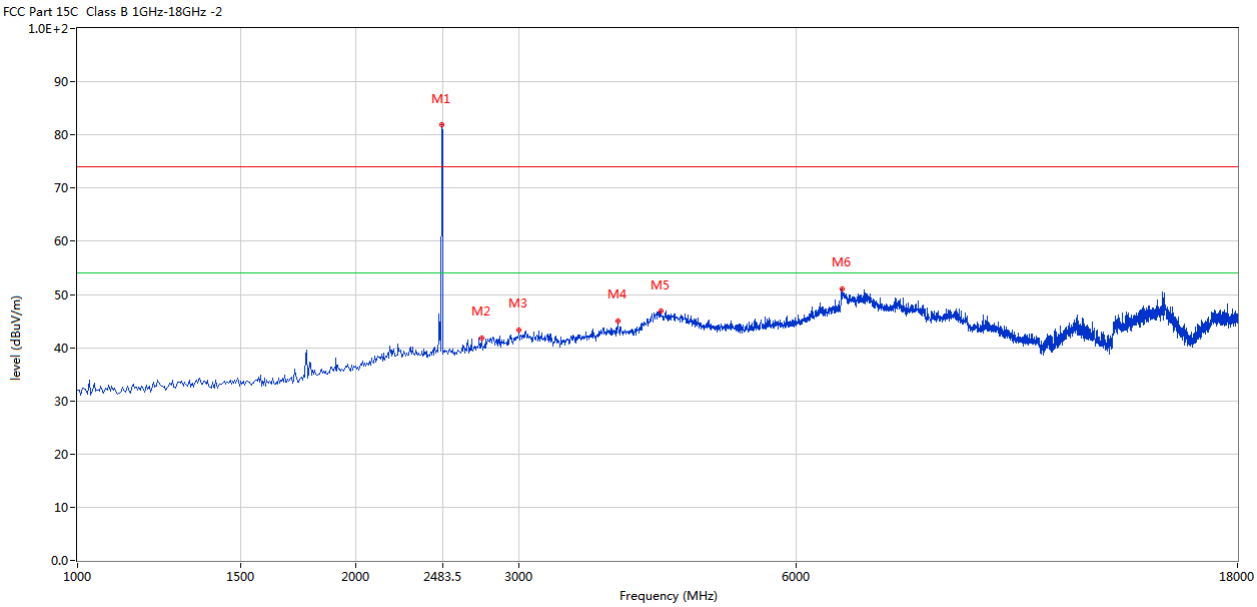
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	81.97	-3.57	114.0	-32.03	Peak	248.00	100	Vertical	Pass
2	2737.816	41.83	-2.86	74.0	-32.17	Peak	0.00	100	Vertical	Pass
3	3005.499	43.38	-2.62	74.0	-30.62	Peak	154.00	100	Vertical	Pass
4	3842.539	45.01	0.52	74.0	-28.99	Peak	295.00	100	Vertical	Pass
5	4275.931	46.86	1.78	74.0	-27.14	Peak	326.00	100	Vertical	Pass
6	6727.568	51.06	6.78	74.0	-22.94	Peak	176.00	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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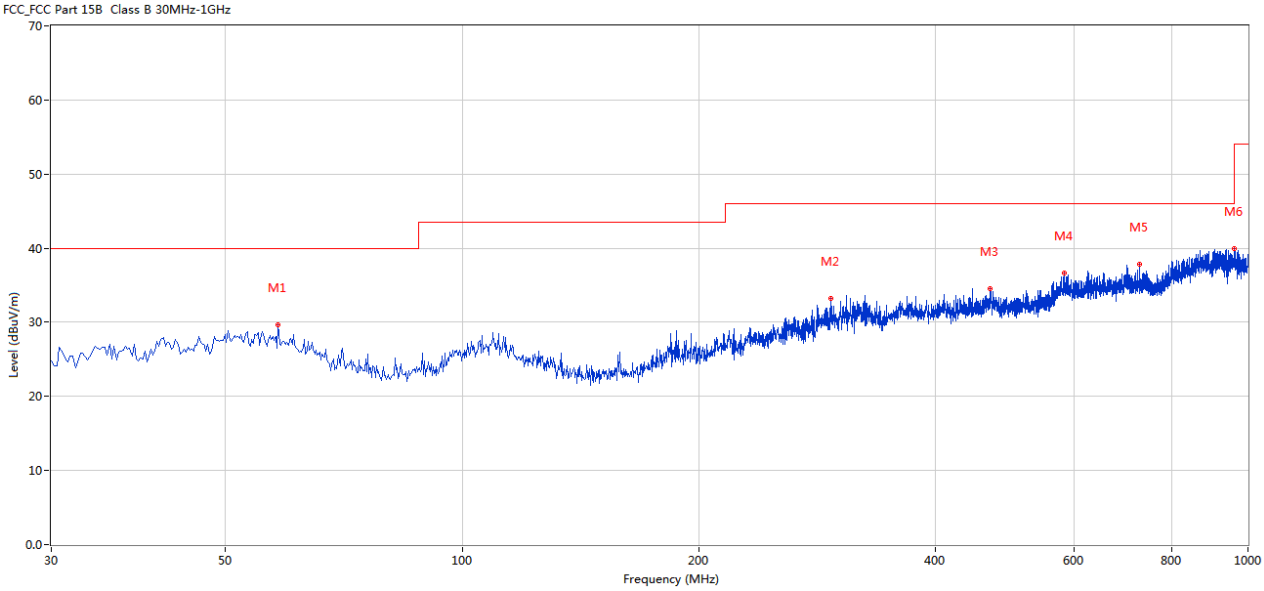
B. General Radiated Emission Data

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

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	58.365	29.62	-5.02	40.0	10.38	Peak	199.00	100	Horizontal	Pass
2	294.501	33.24	-4.04	47.0	13.76	Peak	271.00	100	Horizontal	Pass
3	470.270	34.53	-0.13	47.0	12.47	Peak	95.00	100	Horizontal	Pass
4	584.459	36.71	1.71	47.0	10.29	Peak	334.00	100	Horizontal	Pass
5	727.983	37.90	2.17	47.0	9.10	Peak	178.00	100	Horizontal	Pass
6	959.998	39.94	5.26	47.0	7.06	Peak	246.00	100	Horizontal	Pass

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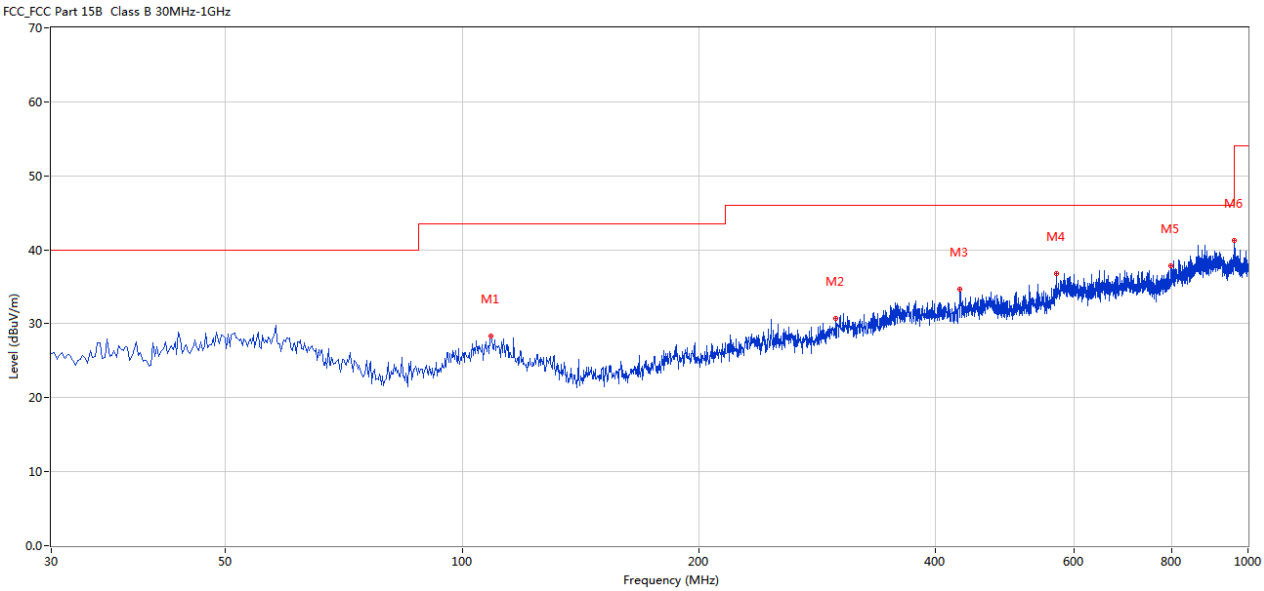
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	108.793	28.37	-5.98	40.0	11.63	Peak	317.00	100	Vertical	Pass
2	299.108	30.68	-4.19	47.0	16.32	Peak	317.00	100	Vertical	Pass
3	429.540	34.69	-0.91	47.0	12.31	Peak	185.00	100	Vertical	Pass
4	570.640	36.79	0.95	47.0	10.21	Peak	6.00	100	Vertical	Pass
5	798.533	37.80	3.30	47.0	9.20	Peak	52.00	100	Vertical	Pass
6	960.967	41.21	5.23	47.0	5.79	Peak	326.00	100	Vertical	Pass

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7. Band Edge

7.1 Test Method and test Procedure:

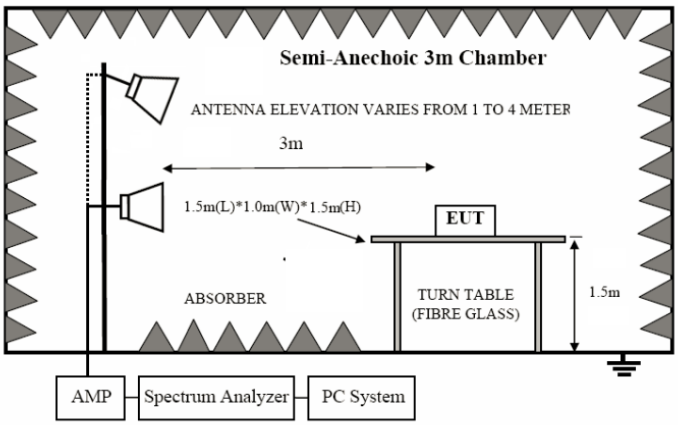
(1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.

(3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



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

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

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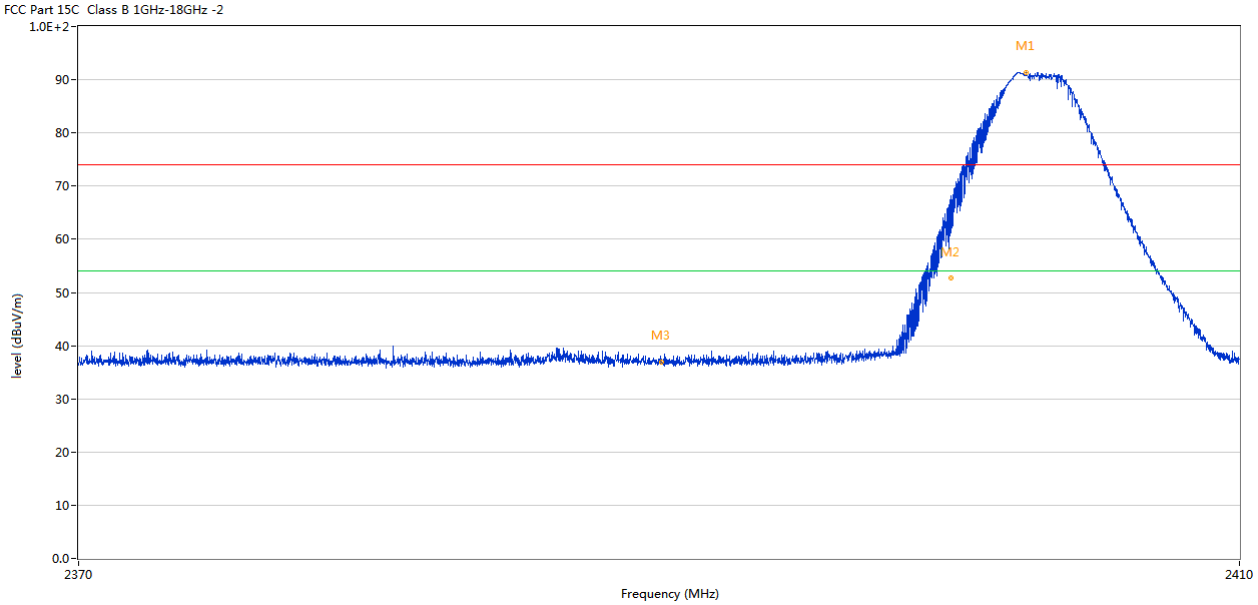
7.6 Test Result

Product:	WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED MECHANICAL KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.592	91.33	-3.57	74.0	17.33	Peak	43.00	100	Horizontal	N/A
2	2400.000	67.85	-3.57	74.0	-6.15	Peak	289.56	100	Horizontal	Pass
2**	2400.000	52.73	-3.57	54.0	-1.27	AV	289.56	100	Horizontal	Pass
3	2390.000	36.98	-3.53	74.0	-37.02	Peak	75.50	100	Horizontal	Pass

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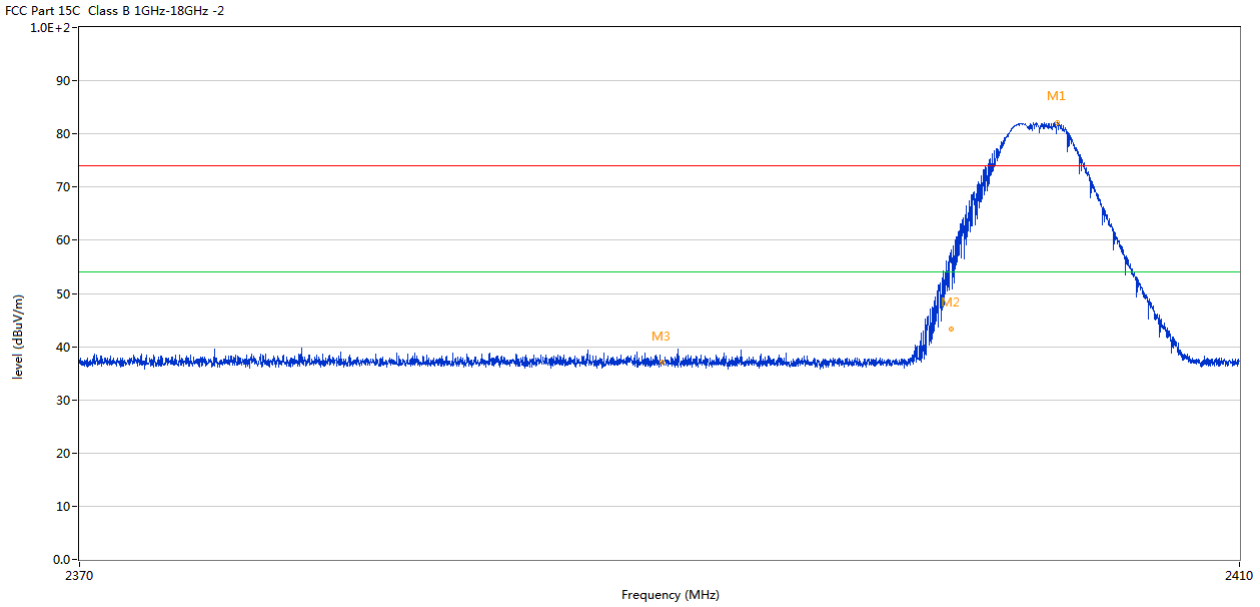
Product:	WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED MECHANICAL KEYBOARD	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403.662	82.11	-3.57	74.0	8.11	Peak	107.00	100	Vertical	N/A
2	2400.000	57.84	-3.57	74.0	-16.16	Peak	290.56	100	Vertical	Pass
2**	2400.000	43.27	-3.57	54.0	-10.73	AV	290.56	100	Vertical	Pass
3	2390.000	37.06	-3.53	74.0	-36.94	Peak	276.50	100	Vertical	Pass

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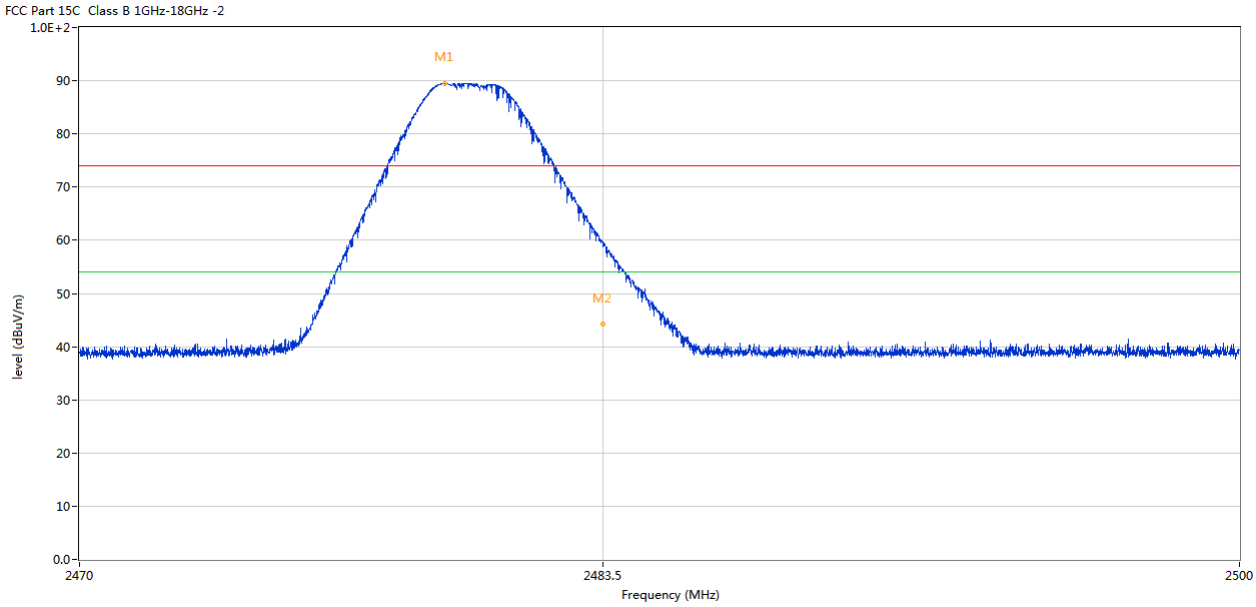
Product:	WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED MECHANICAL KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.403	89.51	-3.57	74.0	15.51	Peak	0.00	100	Horizontal	N/A
2	2483.500	58.76	-3.57	74.0	-15.24	Peak	19.71	100	Horizontal	Pass
2**	2483.500	44.19	-3.57	54.0	-9.81	AV	19.71	100	Horizontal	Pass

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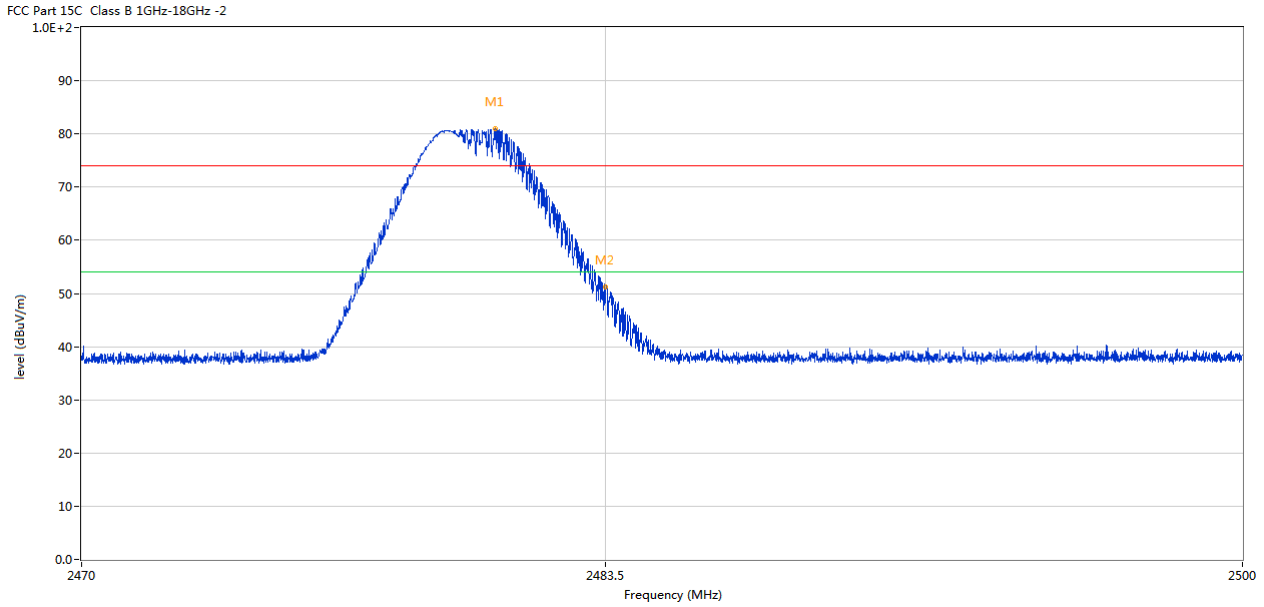
Product:	WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED MECHANICAL KEYBOARD	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.655	80.93	-3.57	74.0	6.93	Peak	252.00	100	Vertical	N/A
2	2483.500	51.23	-3.57	74.0	-22.77	Peak	249.14	100	Vertical	Pass

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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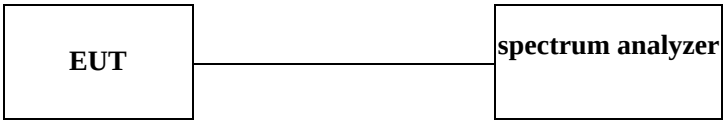
9.0 20dB Bandwidth Measurement

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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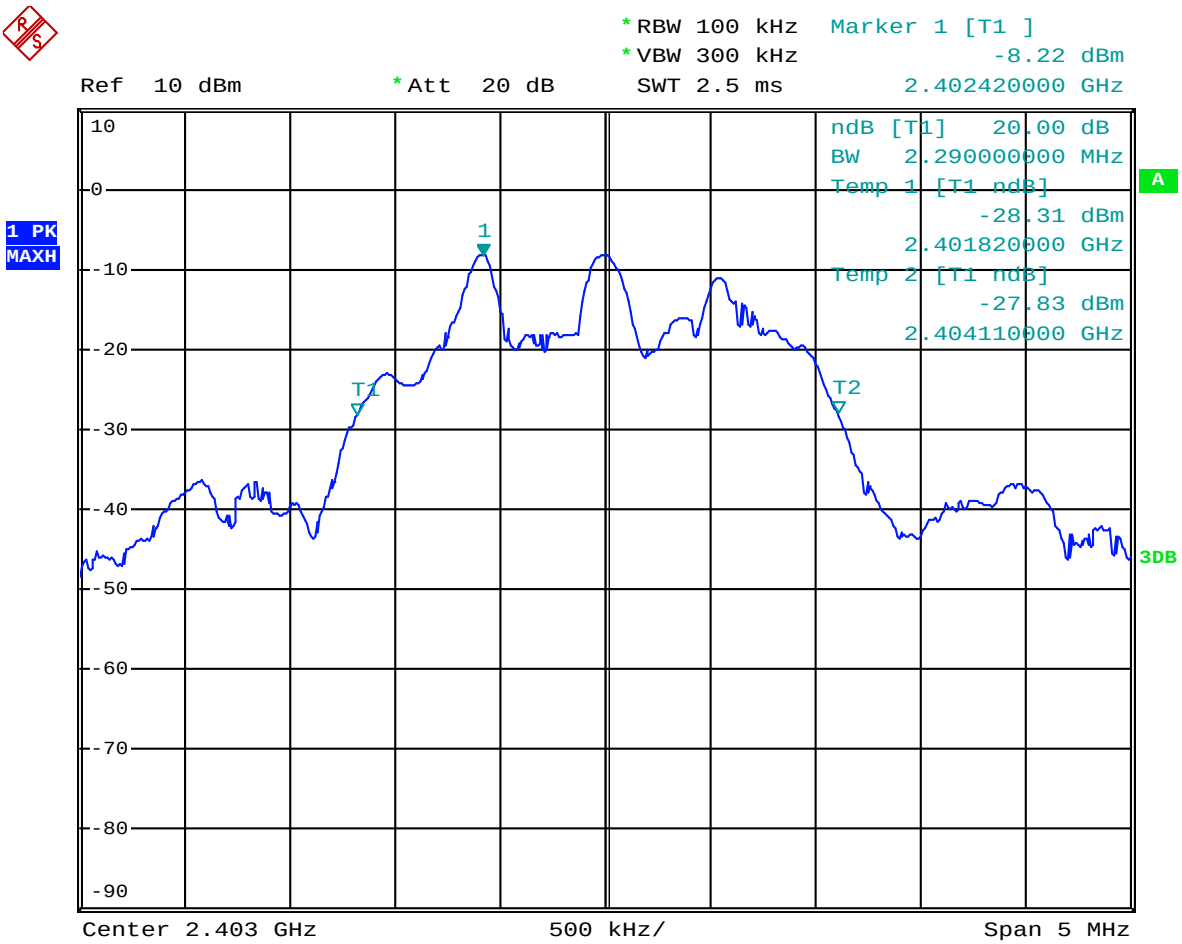
Test Result

Product:	WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED 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	2.290MHz	--	--



Date: 12.JUN.2025 22:28:23

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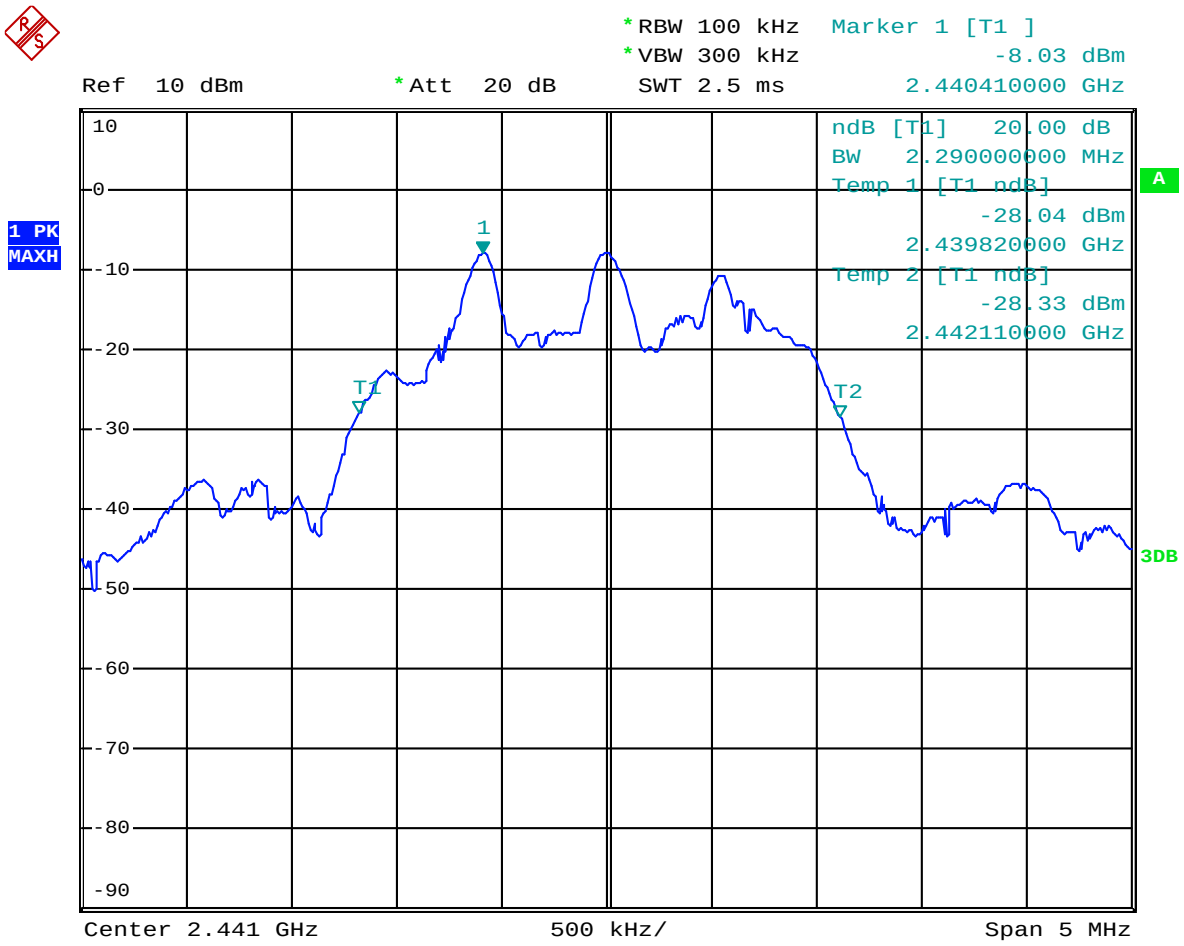
Product:	WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.290MHz	--	--



Date: 12.JUN.2025 22:43:13

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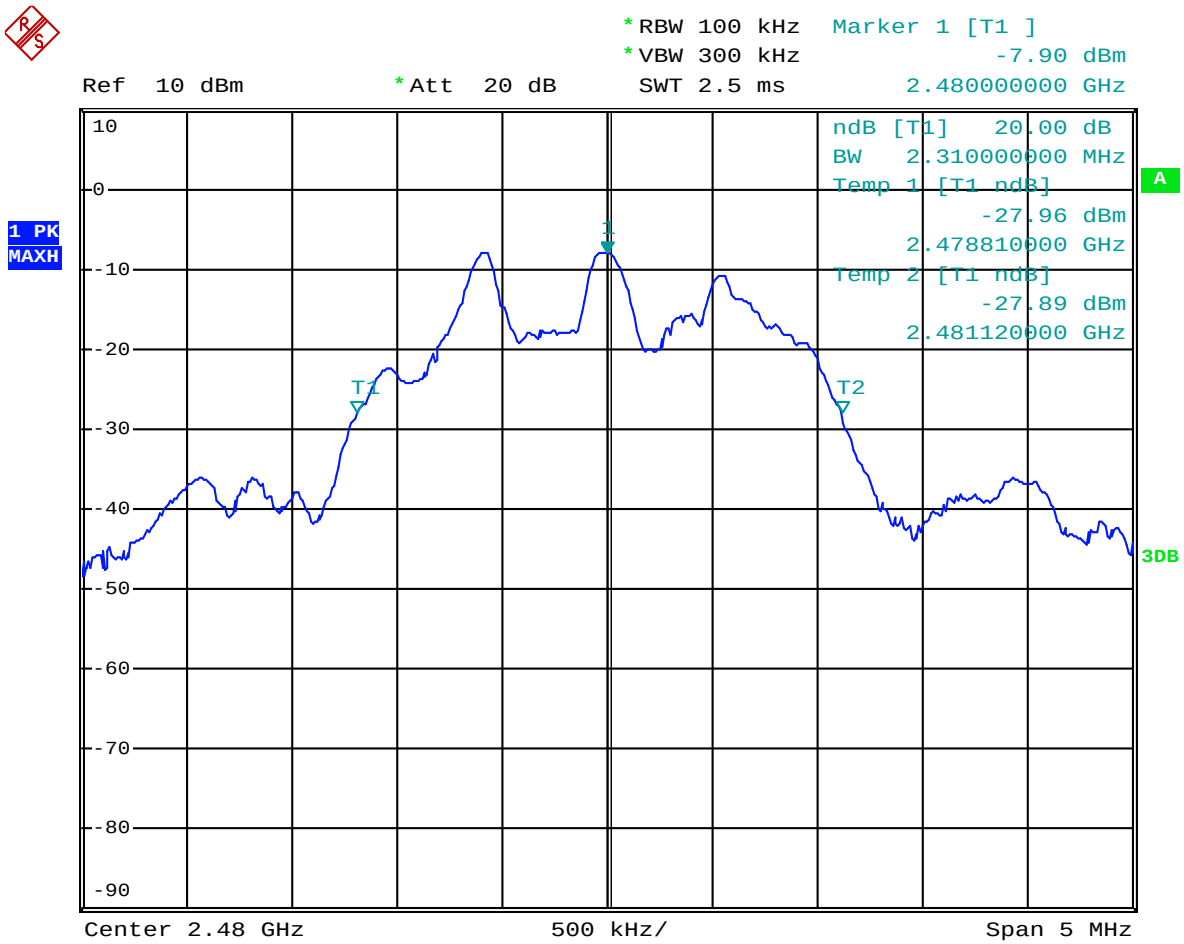
Product:	WIRED/2.4G/BT HOT-SWAPPABLE GASKET MOUNTED MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.310MHz	--	--



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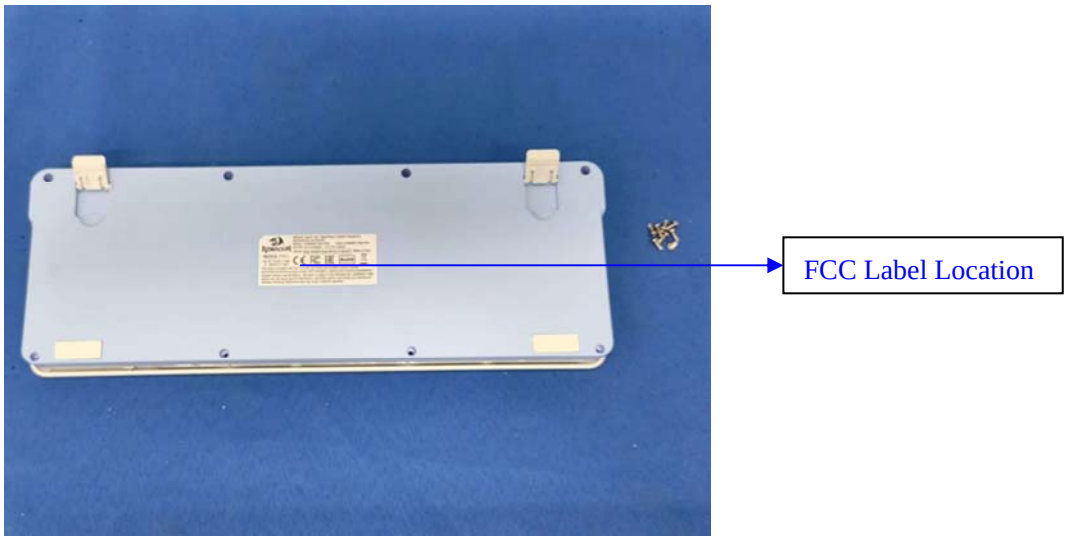
10.0 FCC ID Label

FCC ID: TUVET-7145A

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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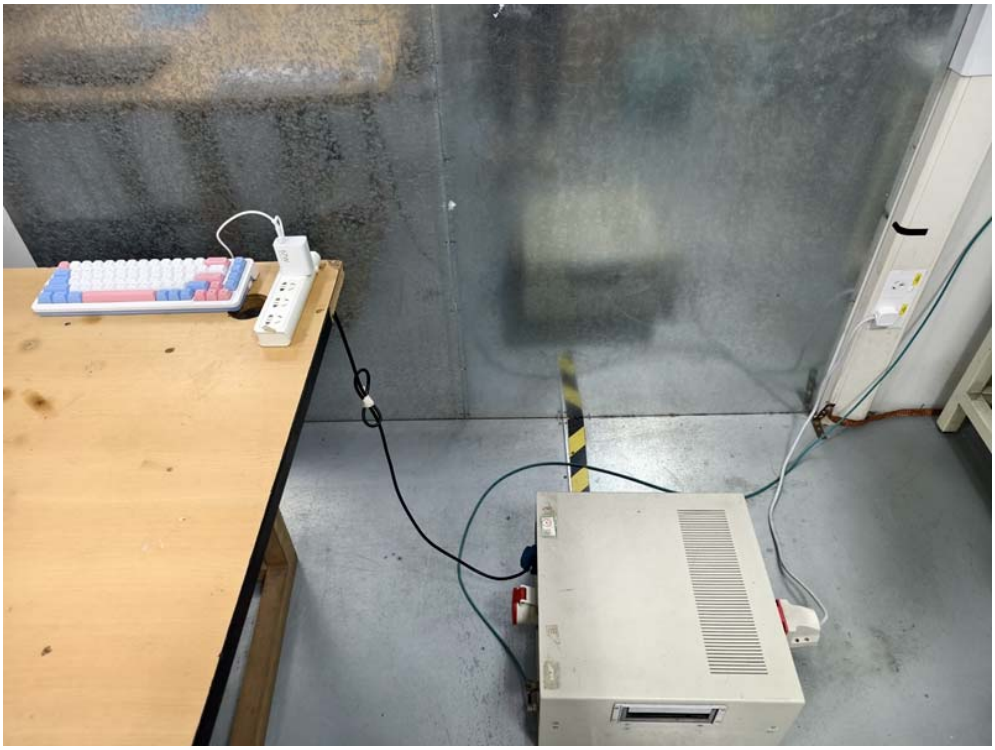
11.0 Photo of testing

11.1 Conducted test View



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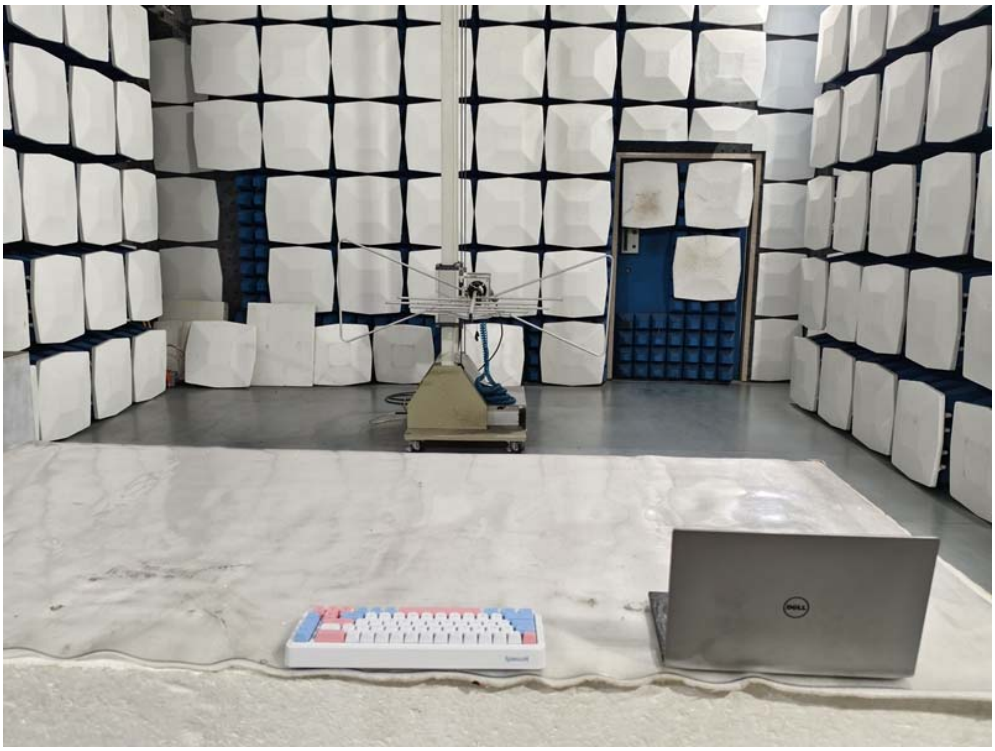
Radiated emission test view



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11.2 Photographs – EUT

Outside View-Keyboard

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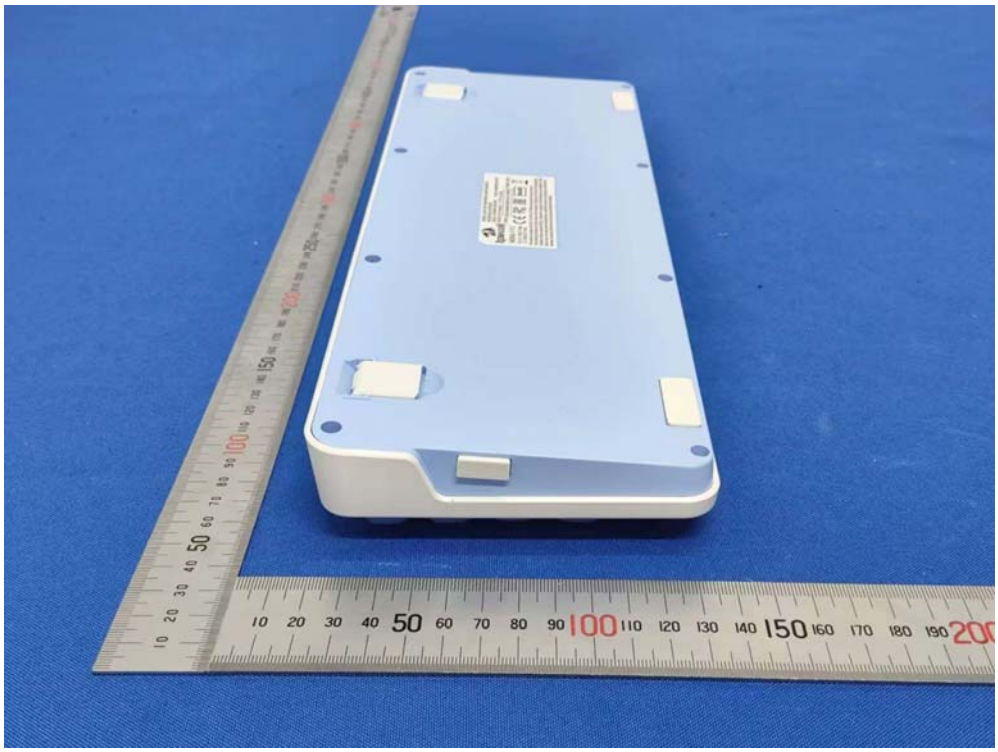
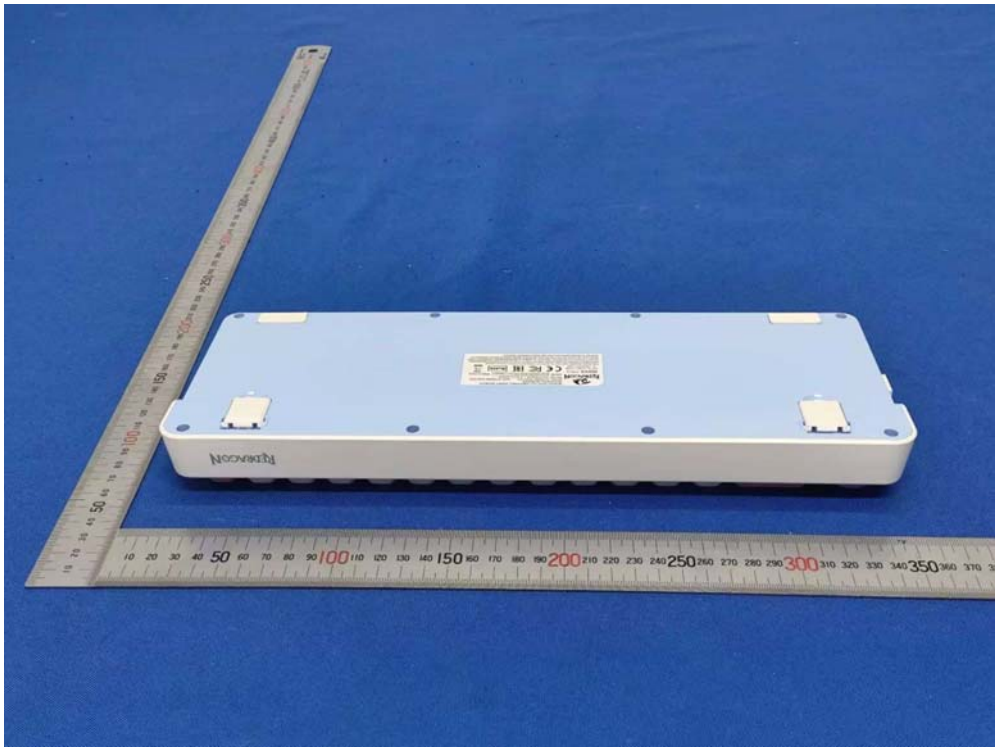
Outside View-Keyboard





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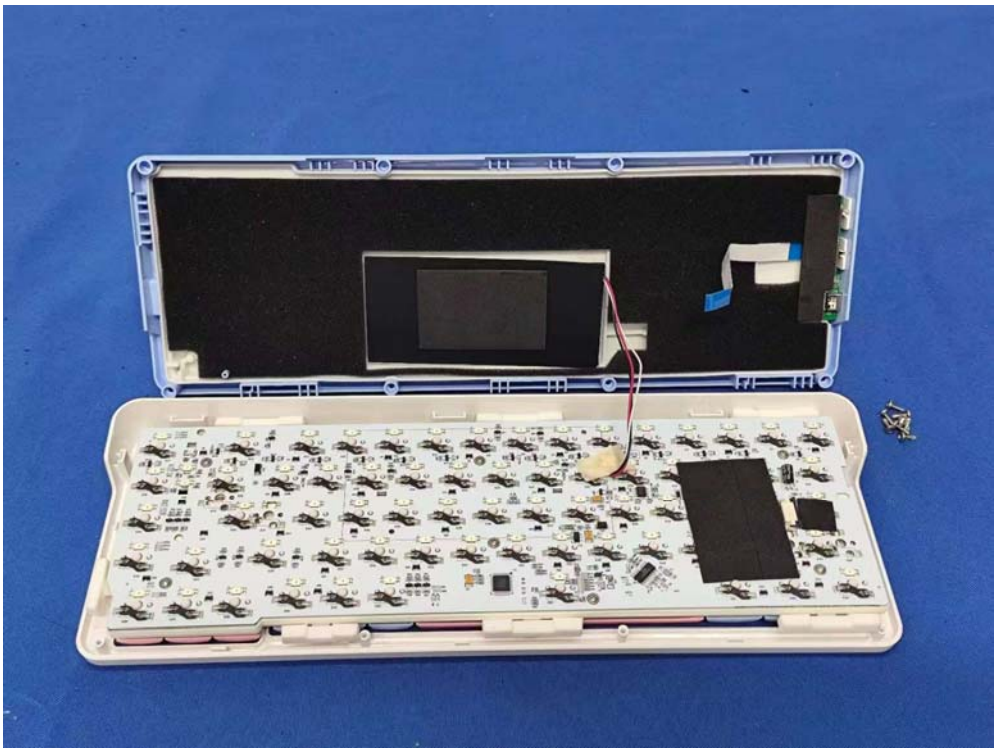
Inside View-Keyboard



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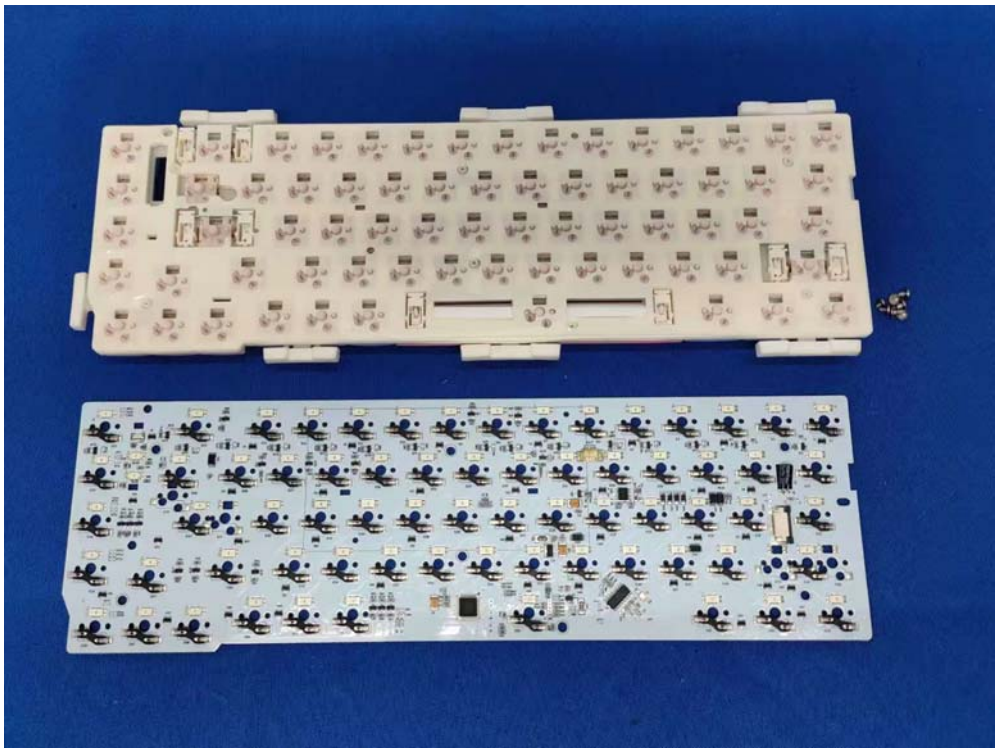

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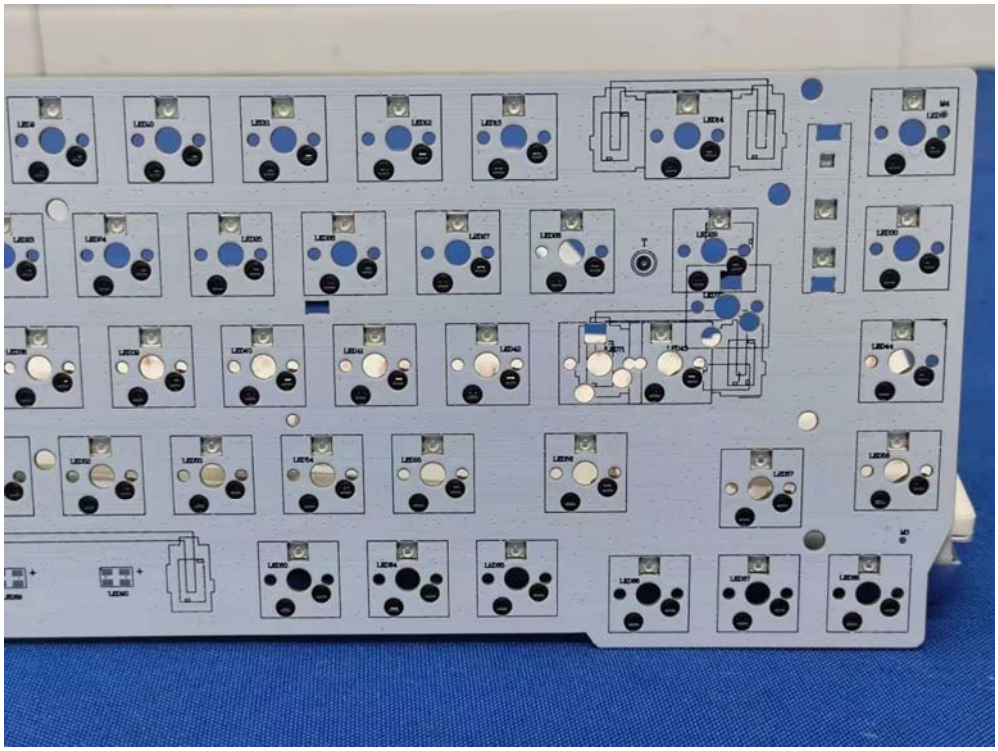

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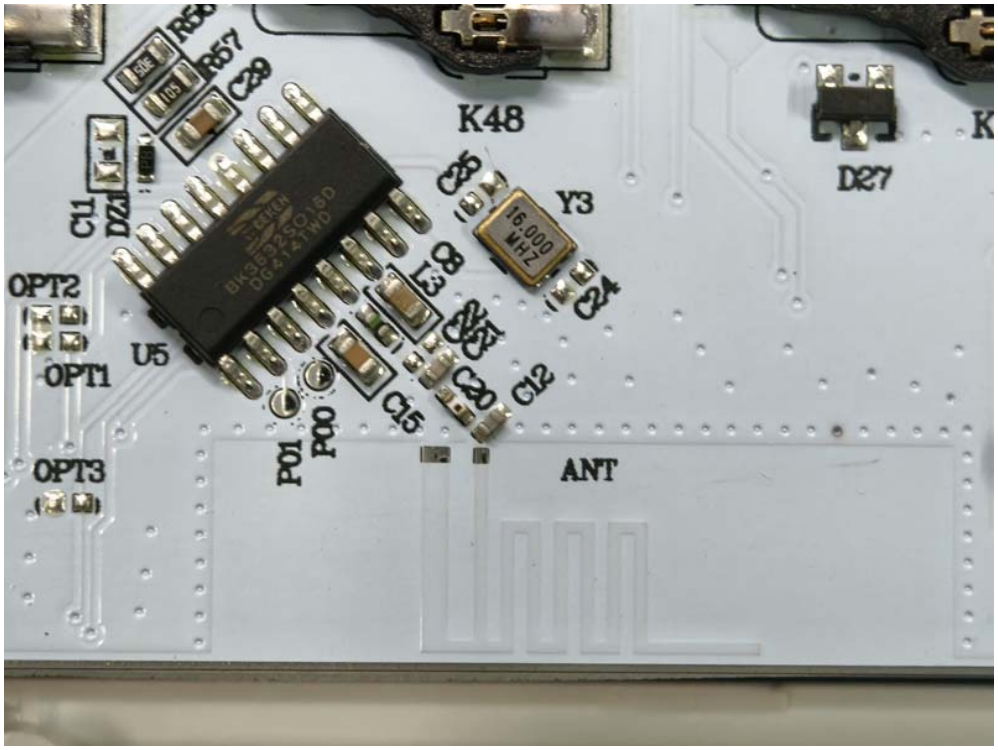

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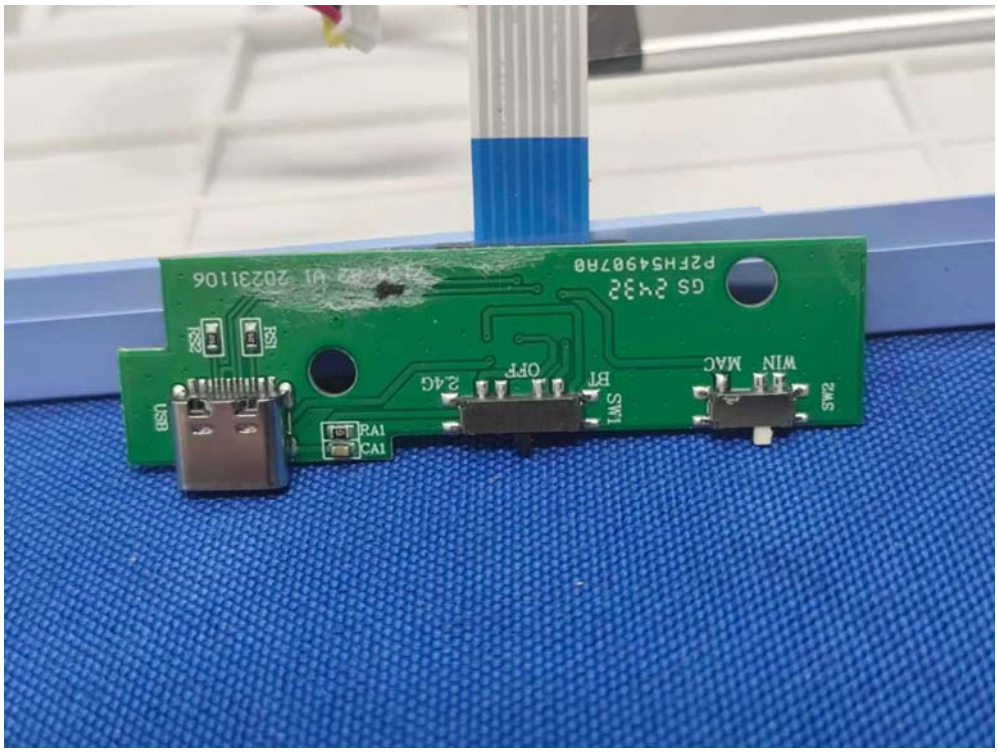

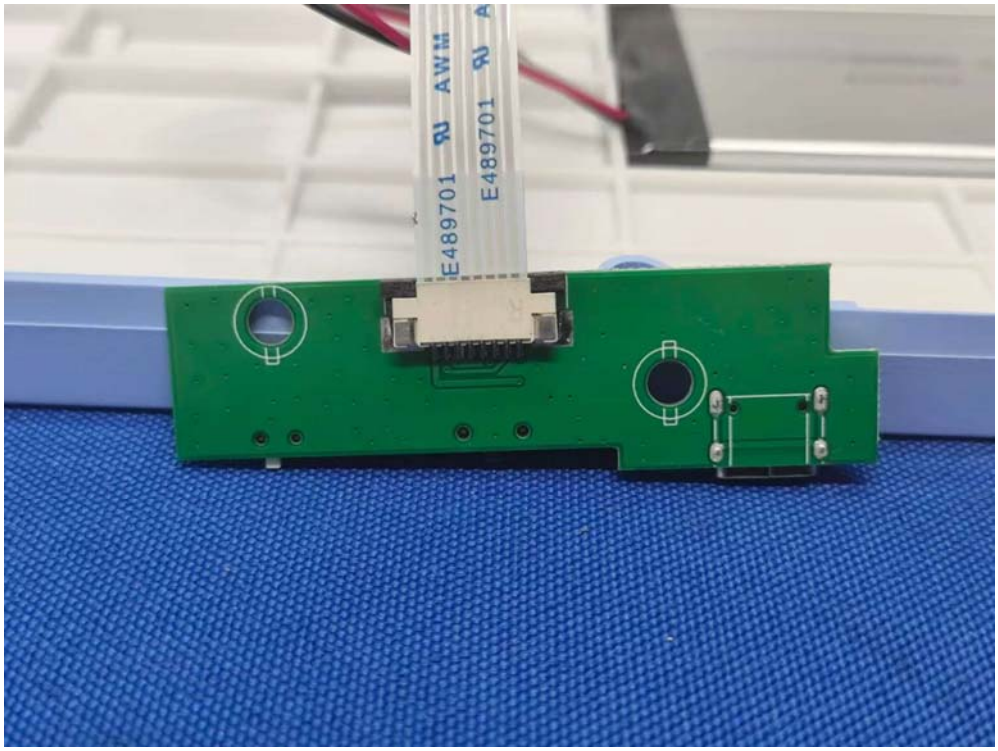

--End of the report--

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