



Report No.: TWN2505869-01E

Applicant: PC-coolers SRL

Product: AQIRYS AGENA Wireless Gaming Keyboard

Model No.: AGENA, AGENAW, AGENAWWH, AGENAWBK, ST-MK18W

Trademark: AQIRYS

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

Manager

Dated: June 18, 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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## 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: PC-coolers SRL  
Address: MATEI BASARAB STR, NO.98, 3RD DISTRICT, BUCHAREST Romania

### 1.3 Description of EUT

Product: AQIRYS AGENA Wireless Gaming Keyboard  
Manufacturer: PC-coolers SRL  
Address: MATEI BASARAB STR, NO.98, 3RD DISTRICT, BUCHAREST Romania  
Trademark: AQIRYS  
Model Number: AGENA  
Additional Model Name: AGENAW, AGENAWWH, AGENAWBK, ST-MK18W  
Rating: Input: DC5V, 1A  
Battery: DC3.7V, 2000mAh Li-ion battery  
Hardware Version: V1.2  
Software Version: V1.0  
Serial No.: N/A  
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

### 1.5 Test Duration

2025-05-26 to 2025-06-18

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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

*Andy-xing*

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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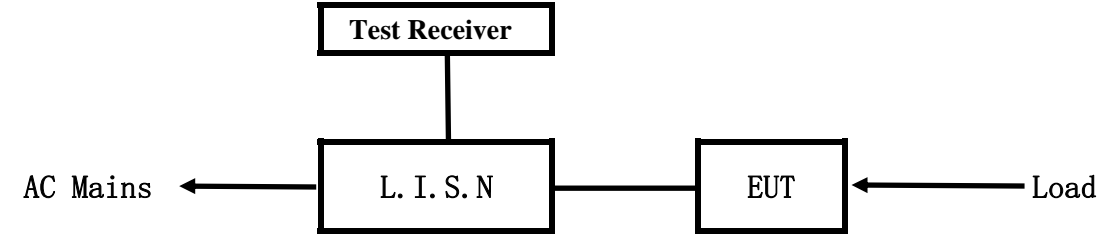
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



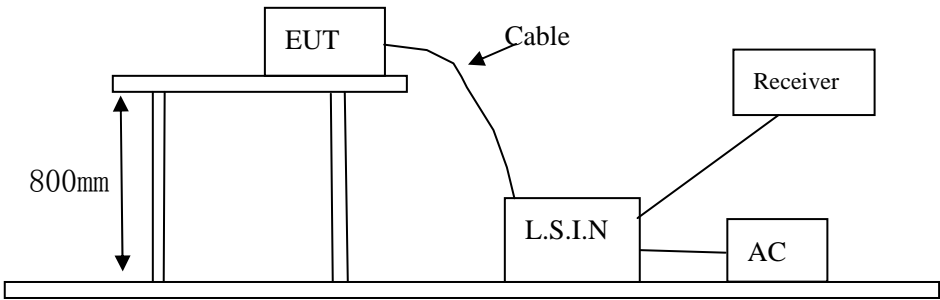
EUT: Equipment Under Test

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
AQIRYS AGENA Wireless Gaming Keyboard	PC-coolers SRL	AGENA, AGENAW, AGENAWWH, AGENAWBK, ST-MK18W	2BG42-AGENA

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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 $\mu$ 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)**

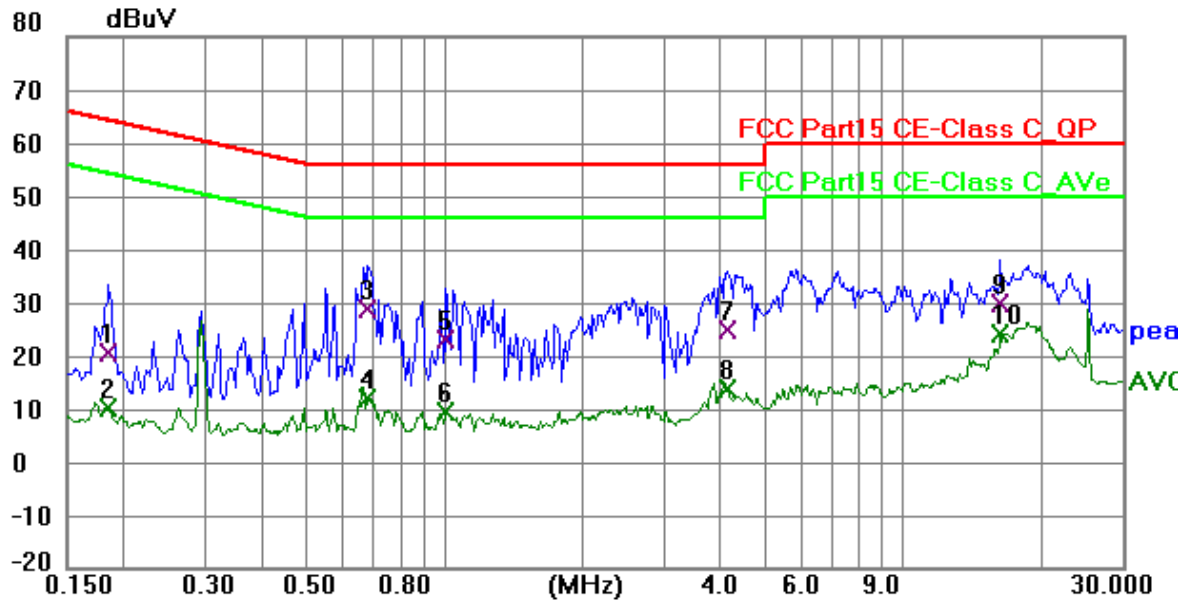
**EUT Operating Environment**

Temperature: 25°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	0.1850	10.27	10.33	20.60	64.26	-43.66	QP	P
2	0.1850	-0.25	10.33	10.08	54.26	-44.18	AVG	P
3	0.6804	18.38	10.45	28.83	56.00	-27.17	QP	P
4	0.6804	1.51	10.45	11.96	46.00	-34.04	AVG	P
5	1.0079	12.45	10.51	22.96	56.00	-33.04	QP	P
6	1.0079	-1.04	10.51	9.47	46.00	-36.53	AVG	P
7	4.1232	12.91	12.06	24.97	56.00	-31.03	QP	P
8	4.1232	1.78	12.06	13.84	46.00	-32.16	AVG	P
9	16.2990	14.36	15.47	29.83	60.00	-30.17	QP	P
10	16.2990	8.59	15.47	24.06	50.00	-25.94	AVG	P

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

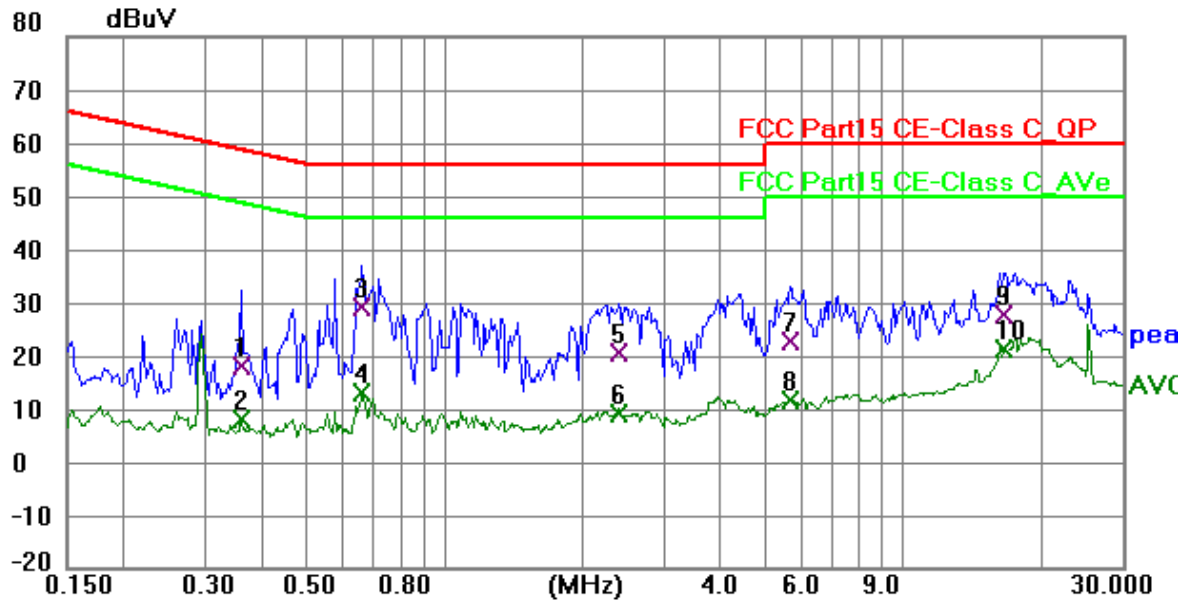
**EUT Operating Environment**

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	0.3605	7.84	10.36	18.20	58.72	-40.52	QP	P
2	0.3605	-2.28	10.36	8.08	48.72	-40.64	AVG	P
3	0.6609	18.51	10.45	28.96	56.00	-27.04	QP	P
4	0.6609	2.58	10.45	13.03	46.00	-32.97	AVG	P
5	2.3964	9.25	11.46	20.71	56.00	-35.29	QP	P
6	2.3964	-2.42	11.46	9.04	46.00	-36.96	AVG	P
7	5.6676	10.07	12.48	22.55	60.00	-37.45	QP	P
8	5.6676	-0.73	12.48	11.75	50.00	-38.25	AVG	P
9	16.6500	12.10	15.56	27.66	60.00	-32.34	QP	P
10	16.6500	5.55	15.56	21.11	50.00	-28.89	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



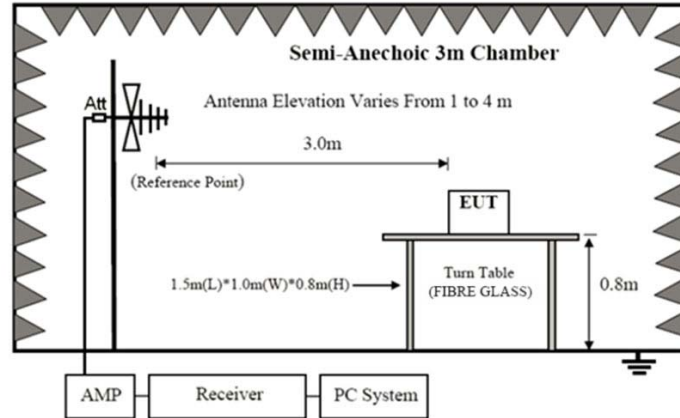
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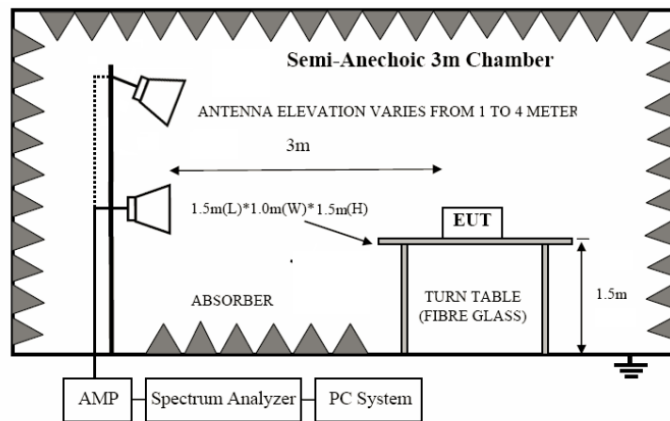
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For radiated emissions from 30MHz to 1GHz



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 $\mu$ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
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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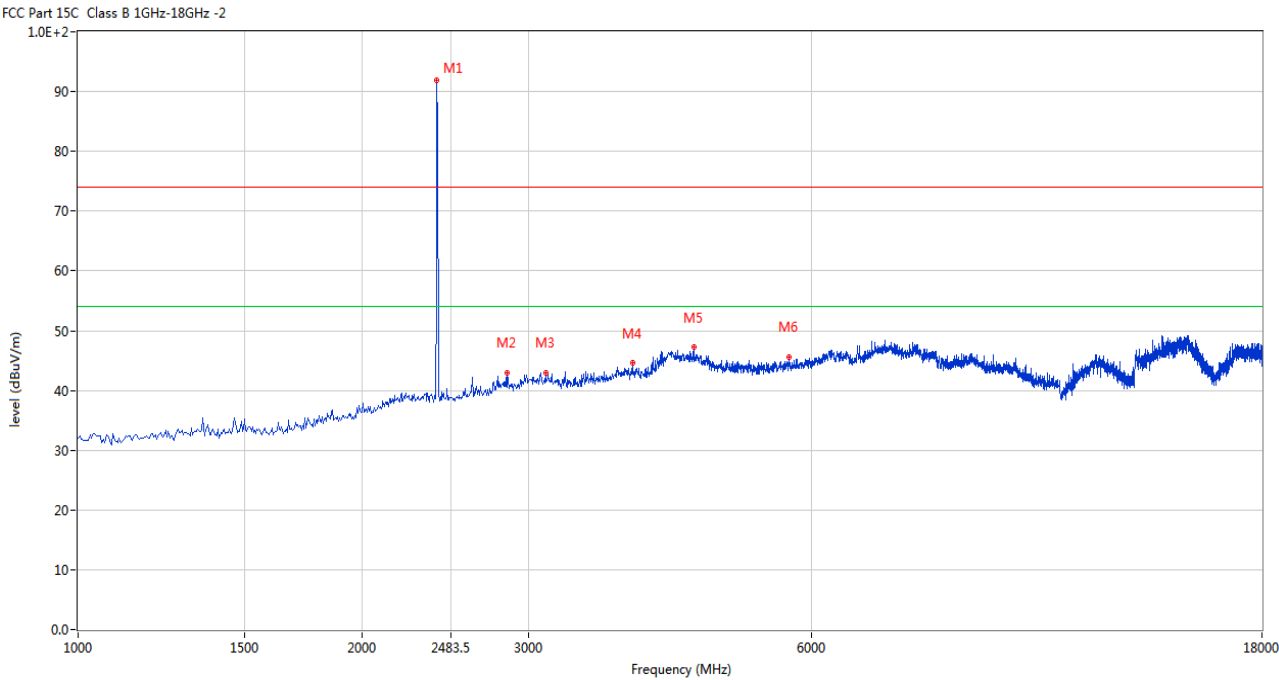
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6.5 Test result  
A Fundamental & Harmonics Radiated Emission Data

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	91.81	-3.57	114.0	-22.19	Peak	162.00	100	Horizontal	Pass
2	2852.537	42.87	-2.68	74.0	-31.13	Peak	313.00	100	Horizontal	Pass
3	3132.967	43.00	-2.12	74.0	-31.00	Peak	27.00	100	Horizontal	Pass
4	3872.282	44.57	0.68	74.0	-29.43	Peak	240.00	100	Horizontal	Pass
5	4496.876	47.22	2.20	74.0	-26.78	Peak	52.00	100	Horizontal	Pass
6	5673.832	45.66	3.85	74.0	-28.34	Peak	187.00	100	Horizontal	Pass

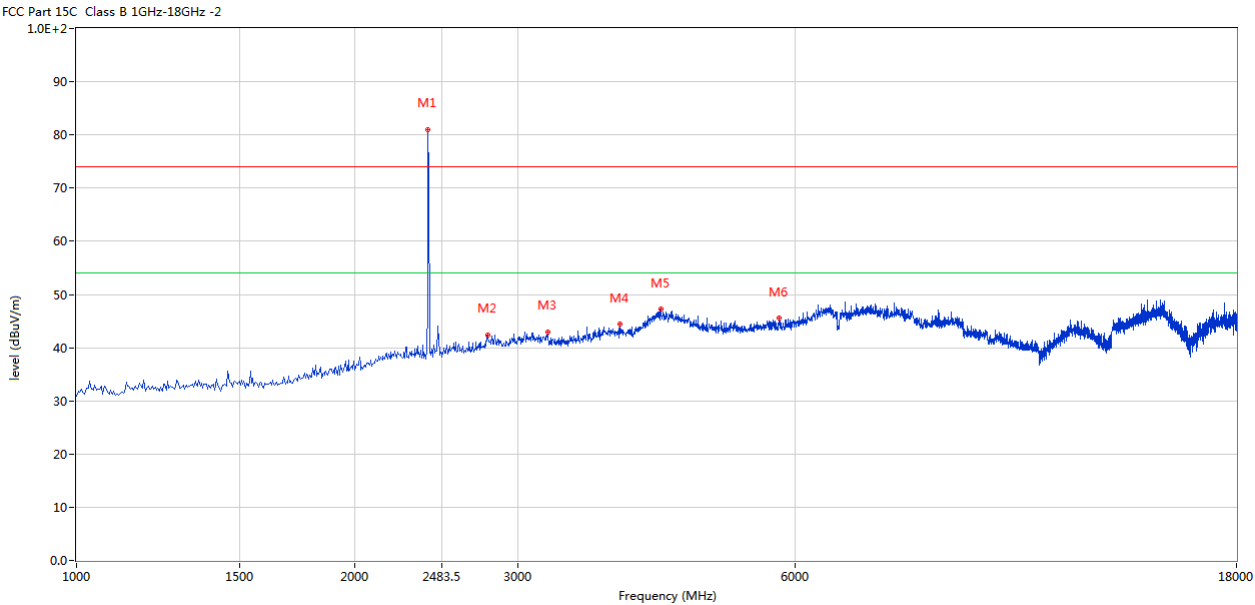
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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403	81.07	-3.57	114.0	-32.93	Peak	225.00	100	Vertical	Pass
2	2784.554	42.44	-2.74	74.0	-31.56	Peak	58.00	100	Vertical	Pass
3	3234.941	42.86	-2.02	74.0	-31.14	Peak	5.00	100	Vertical	Pass
4	3876.531	44.46	0.70	74.0	-29.54	Peak	121.00	100	Vertical	Pass
5	4288.678	47.21	1.81	74.0	-26.79	Peak	267.00	100	Vertical	Pass
6	5754.561	45.54	3.83	74.0	-28.46	Peak	100.00	100	Vertical	Pass

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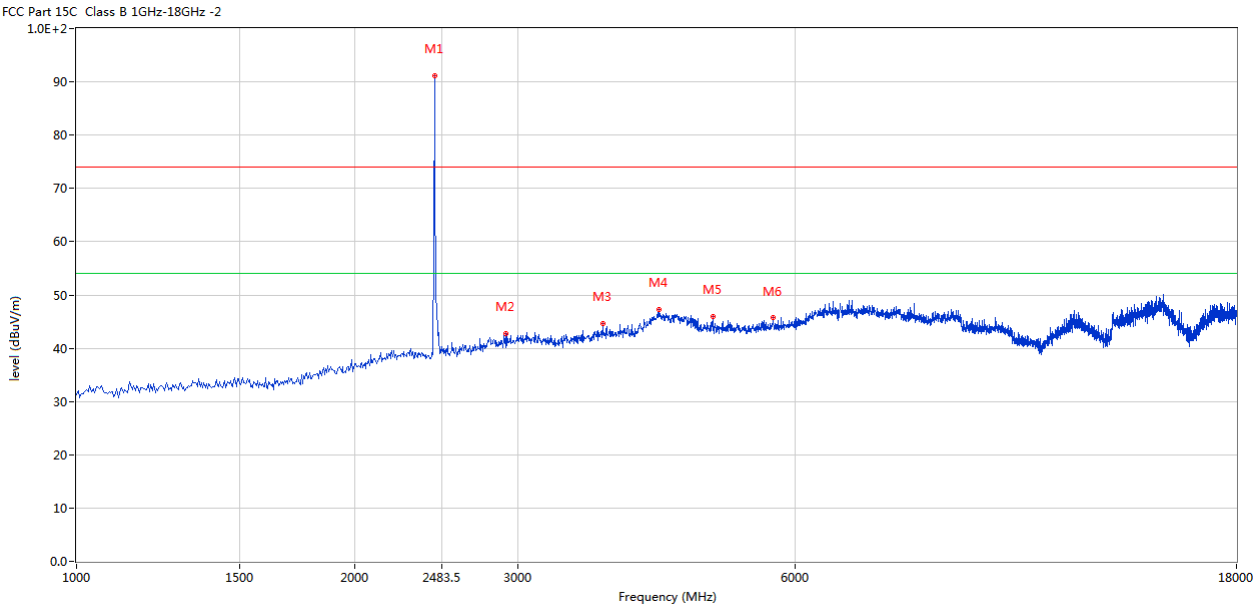
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	91.06	-3.57	114.0	-22.94	Peak	38.00	100	Horizontal	Pass
2	2912.022	42.73	-2.67	74.0	-31.27	Peak	360.00	100	Horizontal	Pass
3	3710.822	44.71	-0.17	74.0	-29.29	Peak	48.00	100	Horizontal	Pass
4	4271.682	47.28	1.77	74.0	-26.72	Peak	296.00	100	Horizontal	Pass
5	4879.280	45.89	3.20	74.0	-28.11	Peak	11.00	100	Horizontal	Pass
6	5673.832	45.69	3.85	74.0	-28.31	Peak	80.00	100	Horizontal	Pass

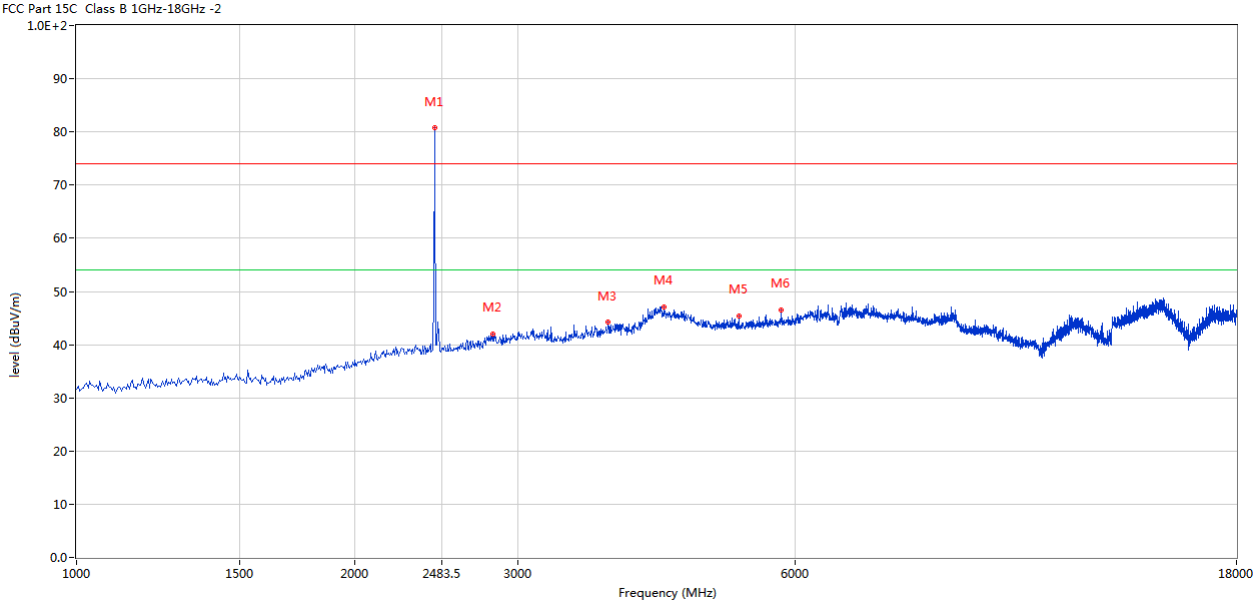
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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	80.73	-3.57	114.0	-33.27	Peak	84.00	100	Vertical	Pass
2	2822.794	41.90	-2.69	74.0	-32.10	Peak	20.00	100	Vertical	Pass
3	3761.810	44.22	0.11	74.0	-29.78	Peak	162.00	100	Vertical	Pass
4	4326.918	47.12	1.88	74.0	-26.88	Peak	1.00	100	Vertical	Pass
5	5206.448	45.44	3.64	74.0	-28.56	Peak	178.00	100	Vertical	Pass
6	5792.802	46.47	3.83	74.0	-27.53	Peak	173.00	100	Vertical	Pass

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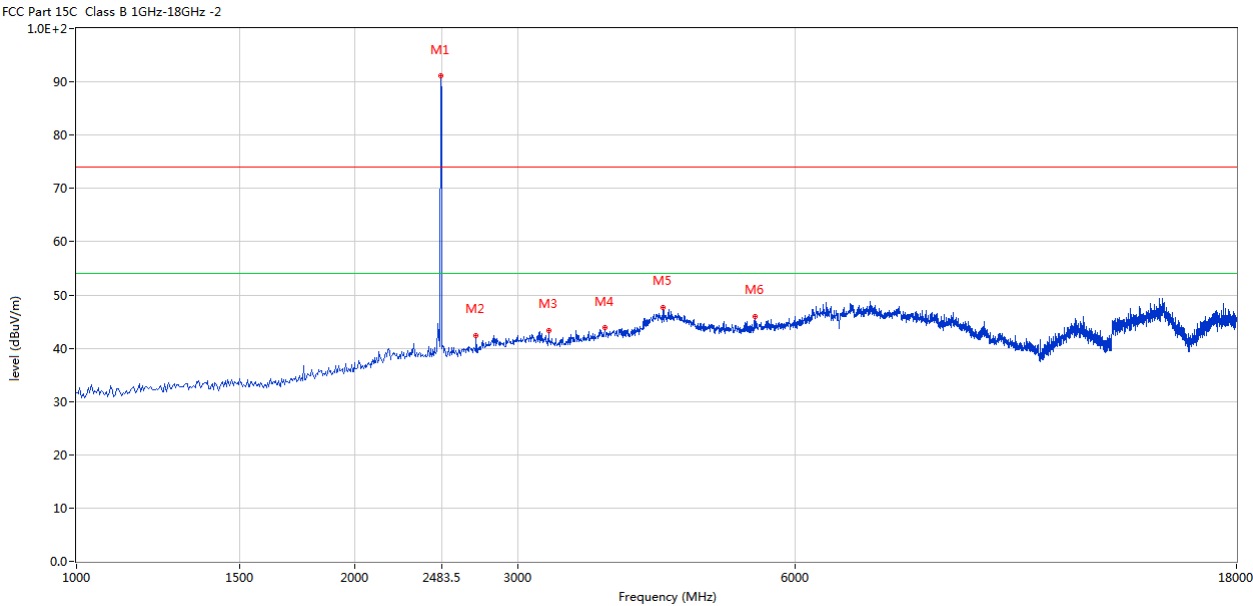
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	91.15	-3.57	114.0	-22.85	Peak	163.00	100	Horizontal	Pass
2	2708.073	42.34	-2.94	74.0	-31.66	Peak	17.00	100	Horizontal	Pass
3	3243.439	43.28	-2.03	74.0	-30.72	Peak	59.00	100	Horizontal	Pass
4	3727.818	43.97	-0.08	74.0	-30.03	Peak	275.00	100	Horizontal	Pass
5	4309.923	47.66	1.86	74.0	-26.34	Peak	280.00	100	Horizontal	Pass
6	5423.144	45.90	3.75	74.0	-28.10	Peak	136.00	100	Horizontal	Pass

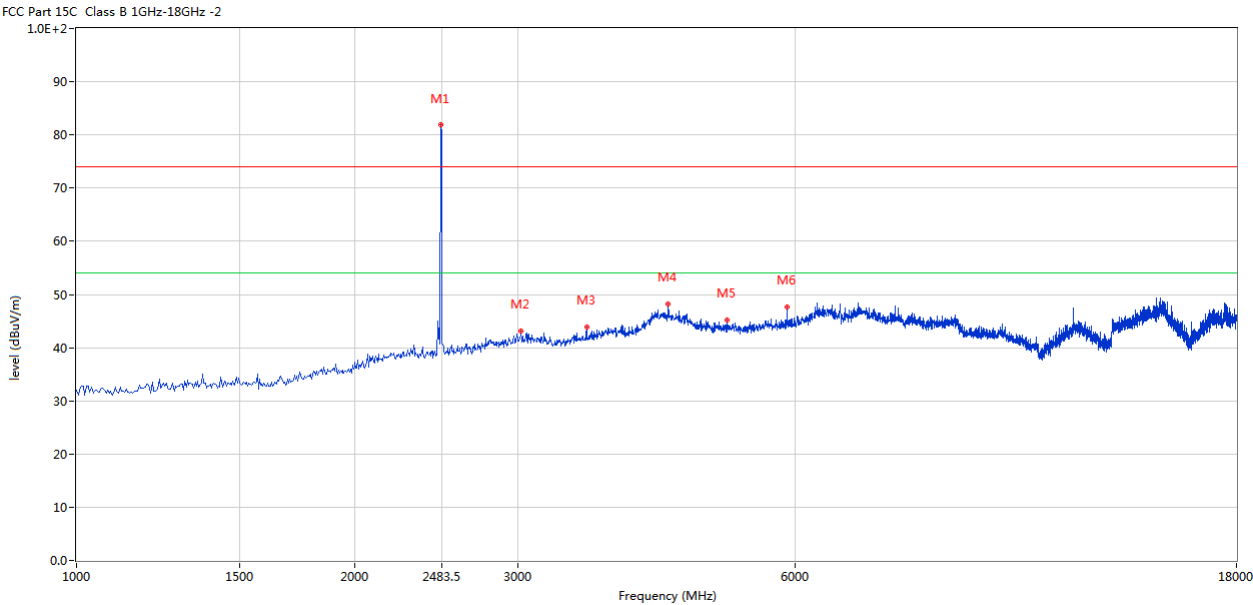
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Vertical



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	91.00	100	Vertical	Pass
2	3026.743	43.05	-2.52	74.0	-30.95	Peak	196.00	100	Vertical	Pass
3	3566.358	43.93	-0.76	74.0	-30.07	Peak	137.00	100	Vertical	Pass
4	4369.408	48.21	1.95	74.0	-25.79	Peak	159.00	100	Vertical	Pass
5	5053.487	45.26	3.64	74.0	-28.74	Peak	351.00	100	Vertical	Pass
6	5873.532	47.67	3.82	74.0	-26.33	Peak	107.00	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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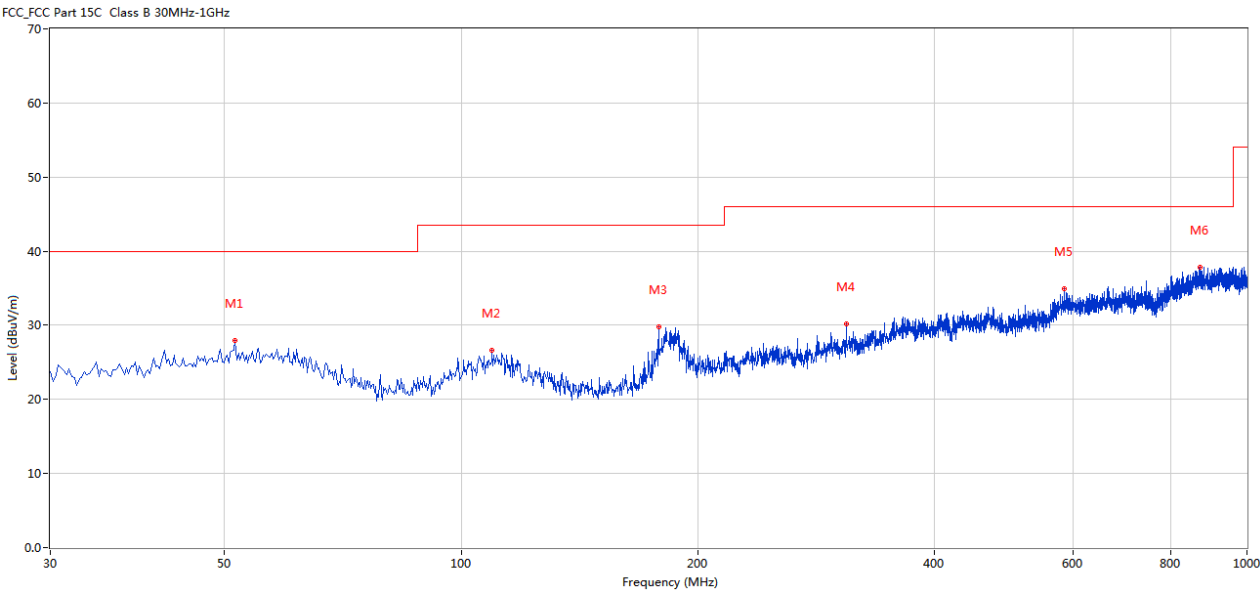


B. General Radiated Emission Data  
Radiated Emission In Horizontal (30MHz----1000MHz)

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	51.577	27.99	-4.90	40.0	12.01	Peak	284.00	100	Horizontal	Pass
2	109.520	26.65	-5.98	43.5	16.85	Peak	145.00	100	Horizontal	Pass
3	178.373	29.85	-8.16	43.5	13.65	Peak	274.00	100	Horizontal	Pass
4	308.805	30.15	-3.76	46.0	15.85	Peak	121.00	100	Horizontal	Pass
5	586.156	34.99	1.60	46.0	11.01	Peak	28.00	100	Horizontal	Pass
6	872.234	37.88	5.12	46.0	8.12	Peak	55.00	100	Horizontal	Pass

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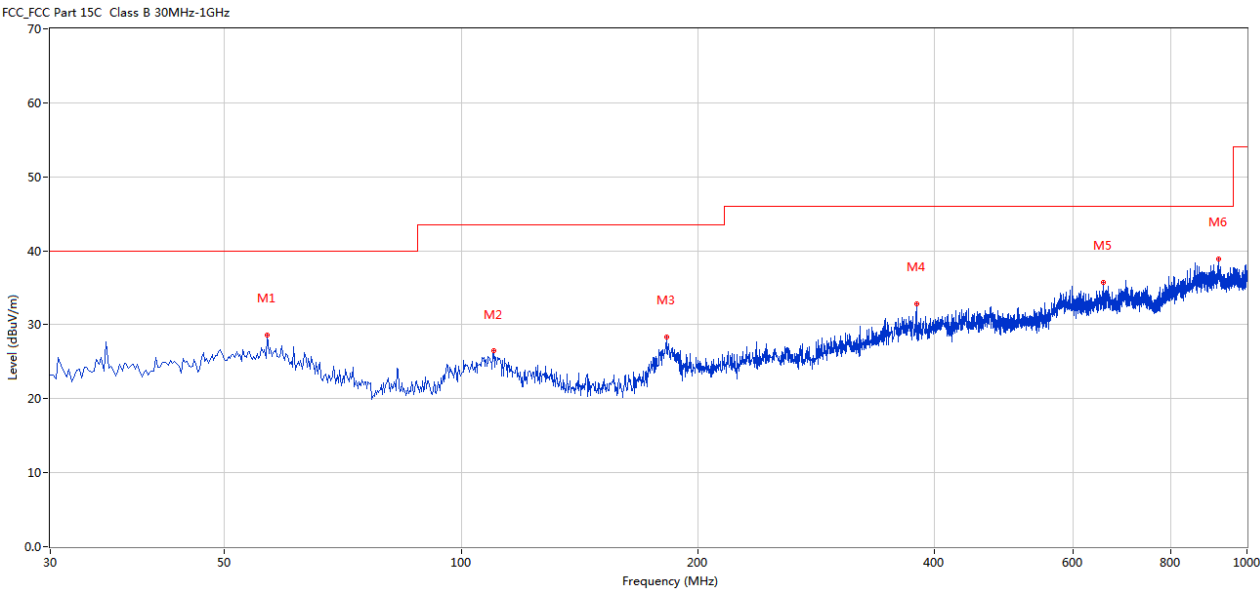


**Radiated Emission In Vertical (30MHz----1000MHz)**

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	56.668	28.57	-4.99	40.0	11.43	Peak	347.00	100	Vertical	Pass
2	110.005	26.44	-5.92	43.5	17.06	Peak	50.00	100	Vertical	Pass
3	182.494	28.38	-7.46	43.5	15.12	Peak	190.00	100	Vertical	Pass
4	379.840	32.83	-2.15	46.0	13.17	Peak	322.00	100	Vertical	Pass
5	655.736	35.74	2.00	46.0	10.26	Peak	67.00	100	Vertical	Pass
6	919.510	38.93	5.50	46.0	7.07	Peak	106.00	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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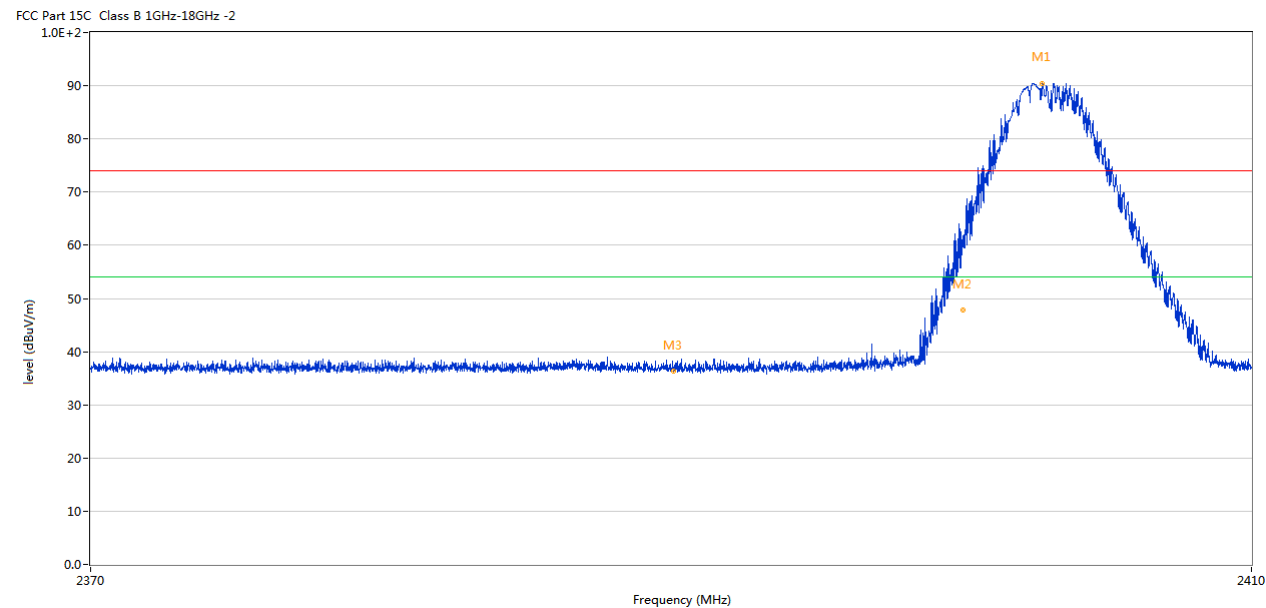
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7.6 Test Result

Product:	AQIRYS AGENA Wireless Gaming 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	2402.732	90.44	-3.57	74.0	16.44	Peak	153.00	100	Horizontal	N/A
2	2400.000	62.51	-3.57	74.0	-11.49	Peak	265.33	100	Horizontal	Pass
2**	2400.000	47.85	-3.57	54.0	-6.15	AV	265.33	100	Horizontal	Pass
3	2390.000	36.30	-3.53	74.0	-37.70	Peak	270.00	100	Horizontal	Pass

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Product:	AQIRYS AGENA Wireless Gaming Keyboard	Detector	Vertical
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

80

70

60

50

40

30

20

10

0.0

level (dBuV/m)

2370

2410

Frequency (MHz)

M1

M2

M3

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.362	80.83	-3.57	74.0	6.83	Peak	234.00	100	Vertical	N/A
2	2400.000	57.02	-3.57	74.0	-16.98	Peak	204.67	100	Vertical	Pass
2**	2400.000	42.24	-3.57	54.0	-11.76	AV	204.67	100	Vertical	Pass
3	2390.000	36.93	-3.53	74.0	-37.07	Peak	158.00	100	Vertical	Pass

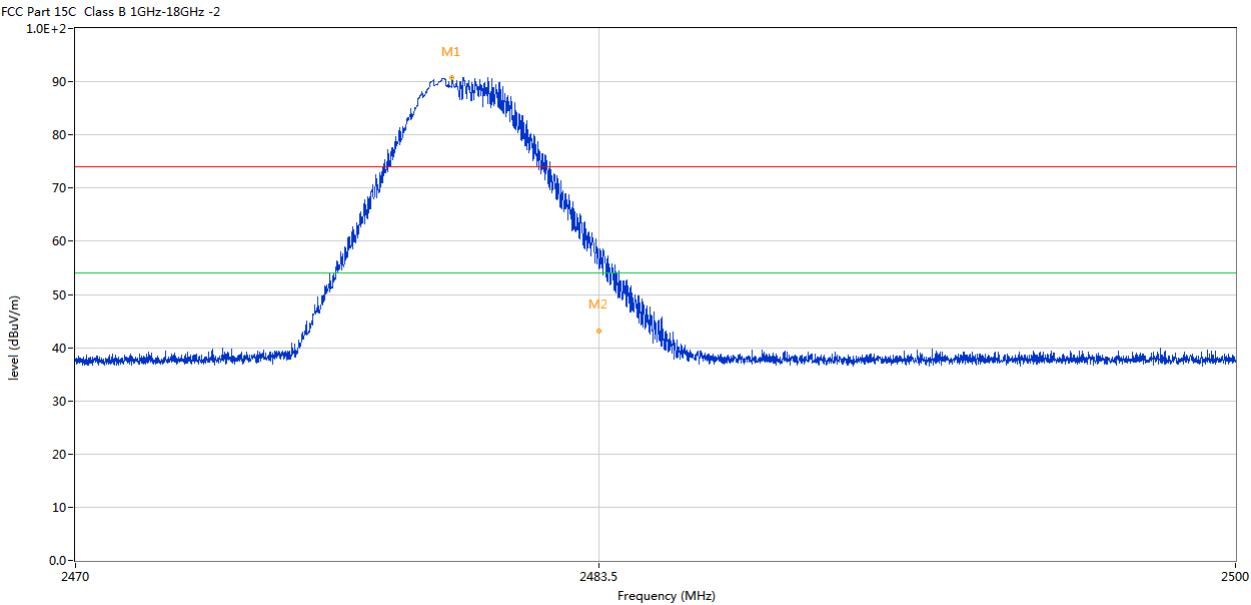
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Product:	AQIRYS AGENA Wireless Gaming Keyboard	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

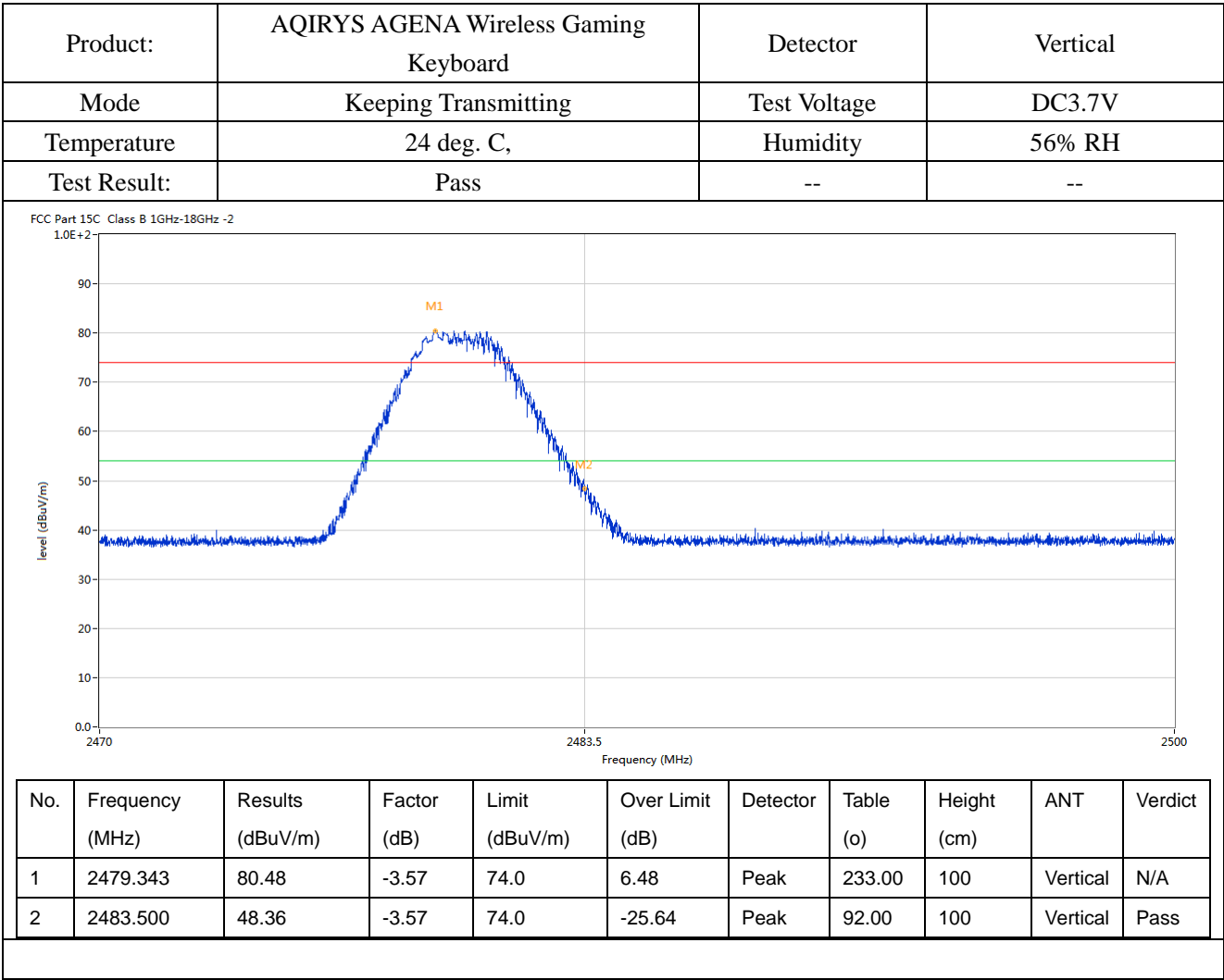


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.688	90.75	-3.57	74.0	16.75	Peak	159.00	100	Horizontal	N/A
2	2483.500	57.67	-3.57	74.0	-16.33	Peak	179.00	100	Horizontal	Pass
2**	2483.500	43.20	-3.57	54.0	-10.80	AV	179.00	100	Horizontal	Pass

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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

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

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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.

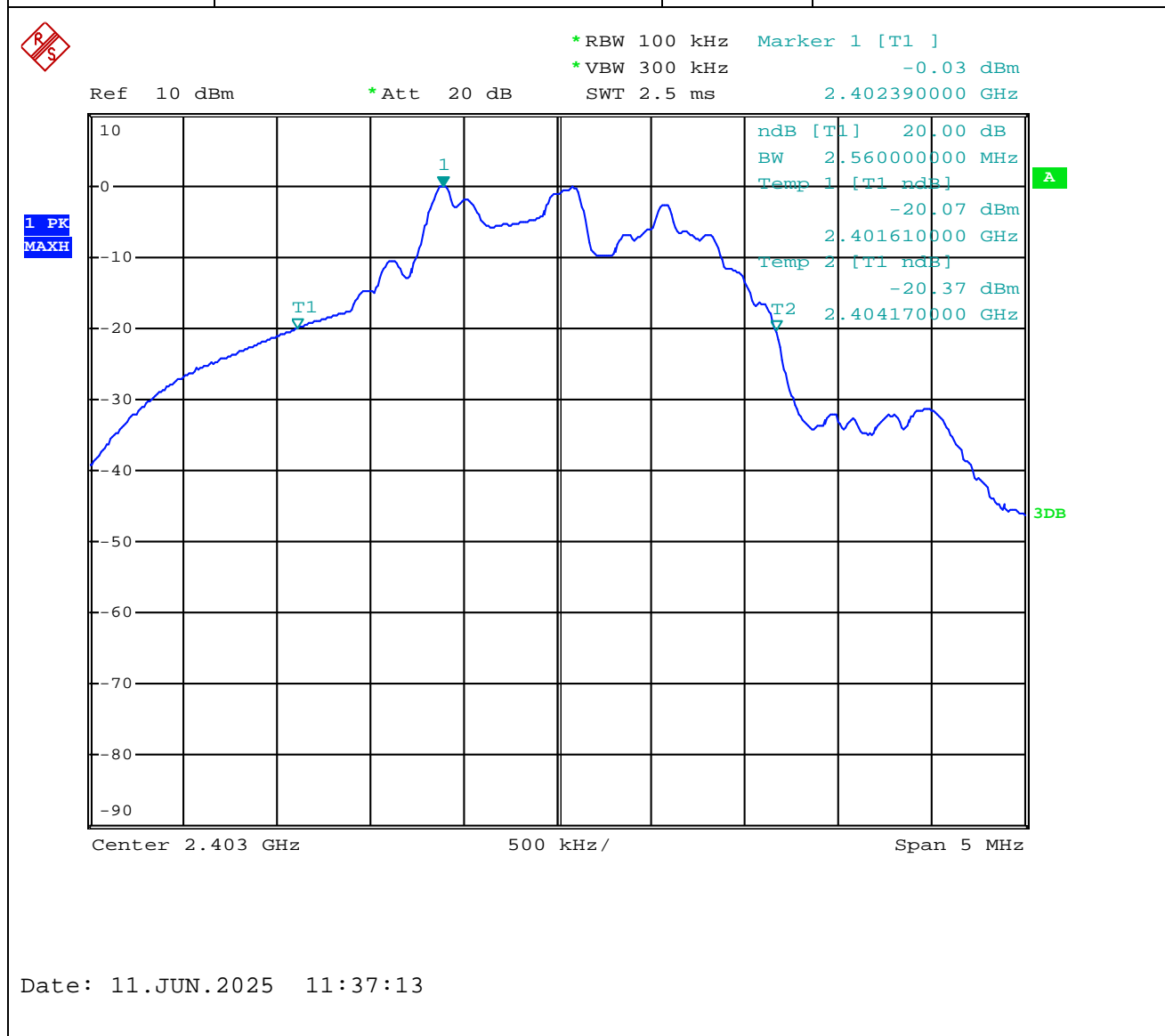
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

**Limit**

N/A

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Product:	AQIRYS AGENA Wireless Gaming 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	2.560MHz	--	--



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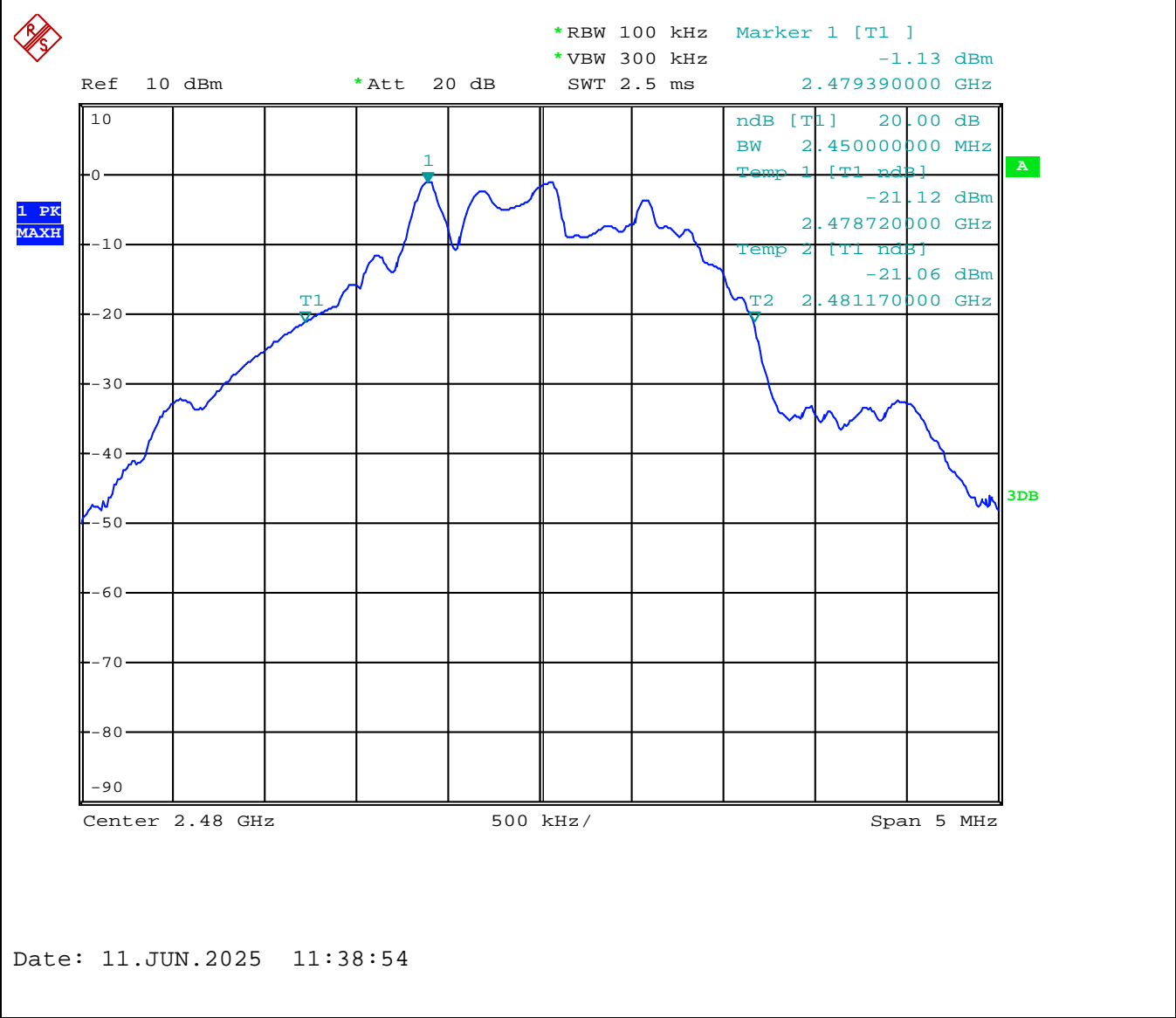
Product:	AQIRYS AGENA Wireless Gaming Keyboard	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.540MHz	--	--



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Product:	AQIRYS AGENA Wireless Gaming 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	2.450MHz	--	--



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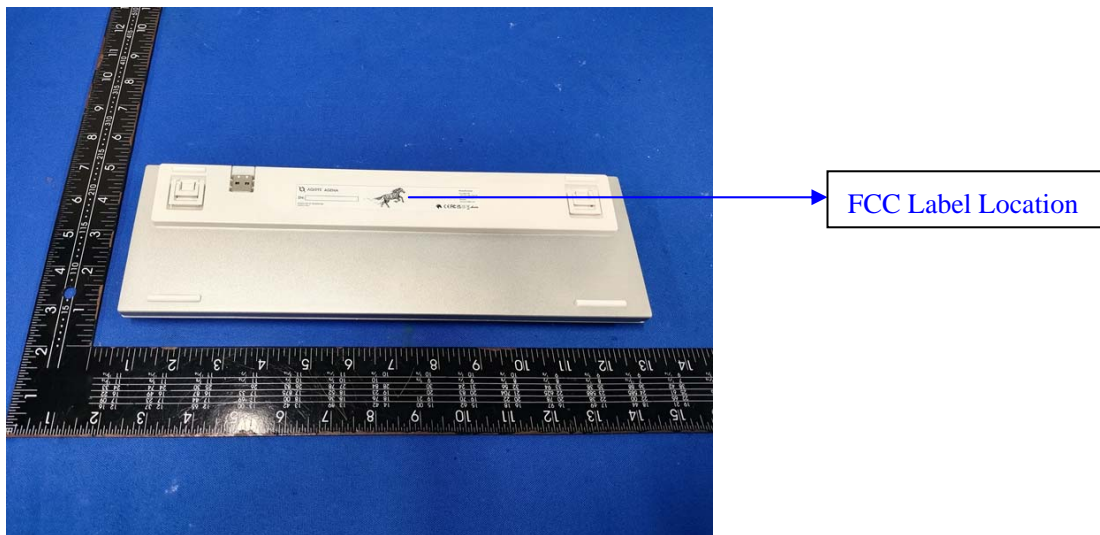
## 10.0 FCC ID Label

### FCC ID: 2BG42-AGENA

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



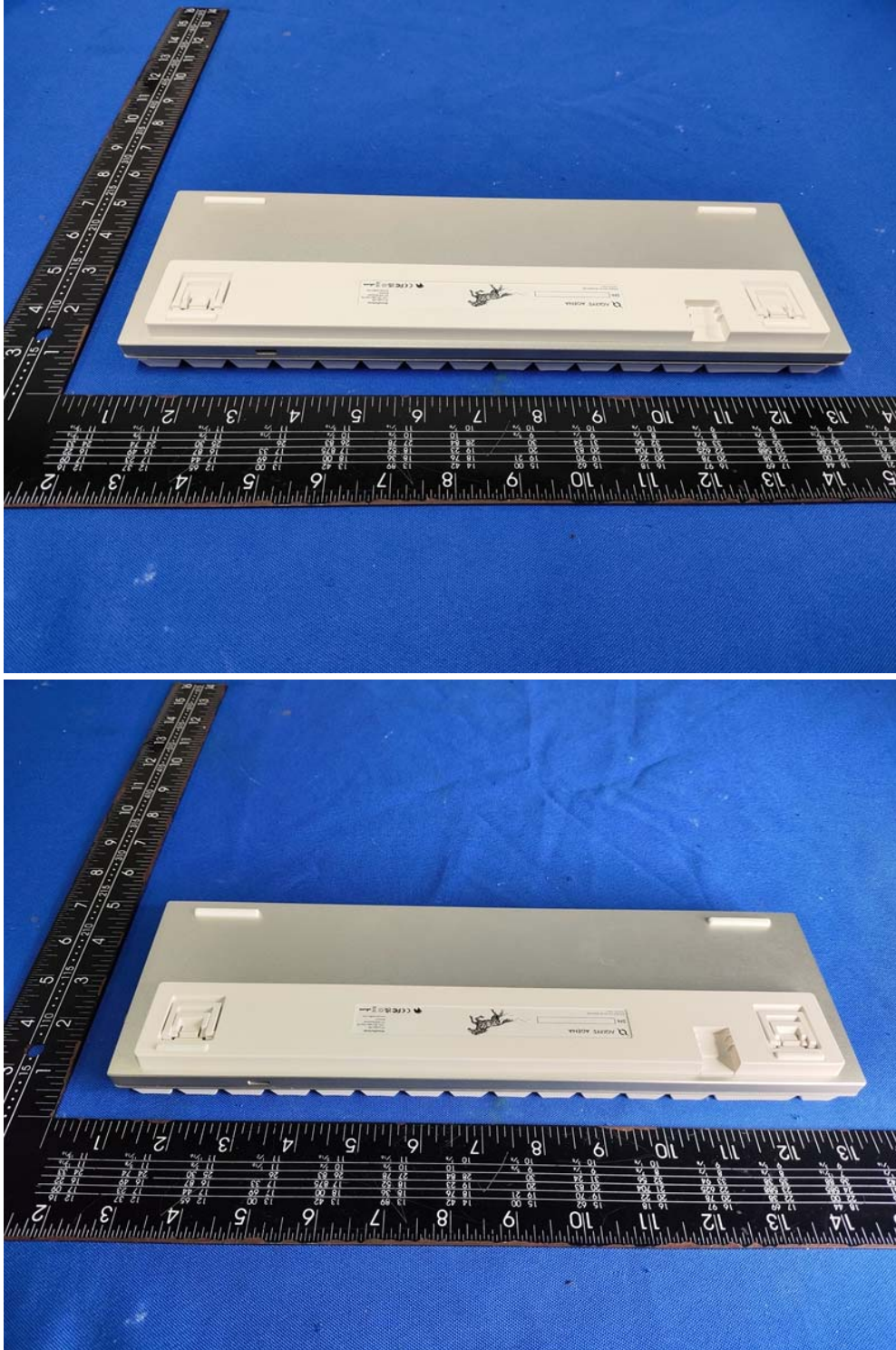
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Outside View-Keyboard



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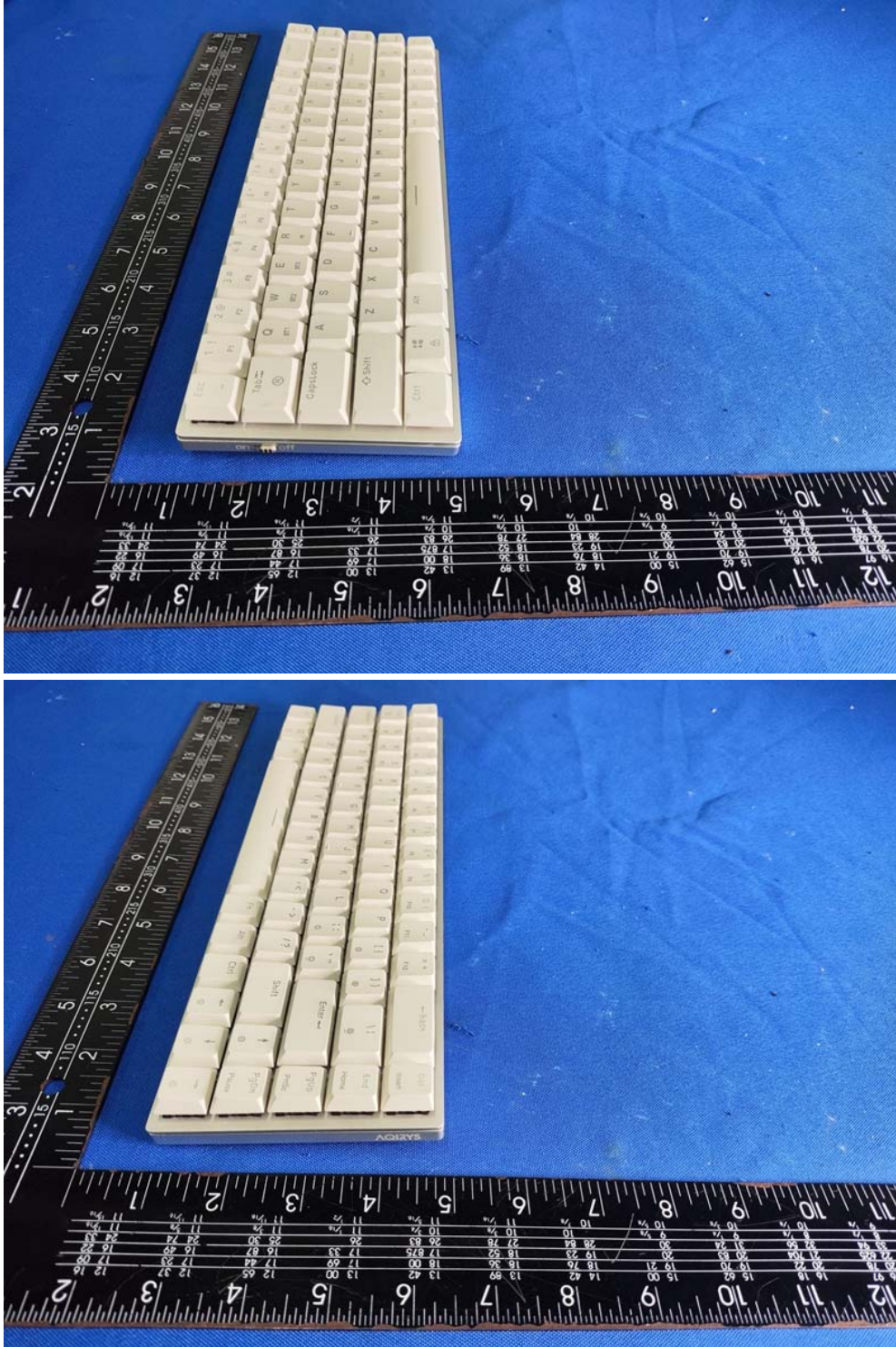
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Outside View-Keyboard



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Outside View-KeyBoard



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Outside View-Keyboard



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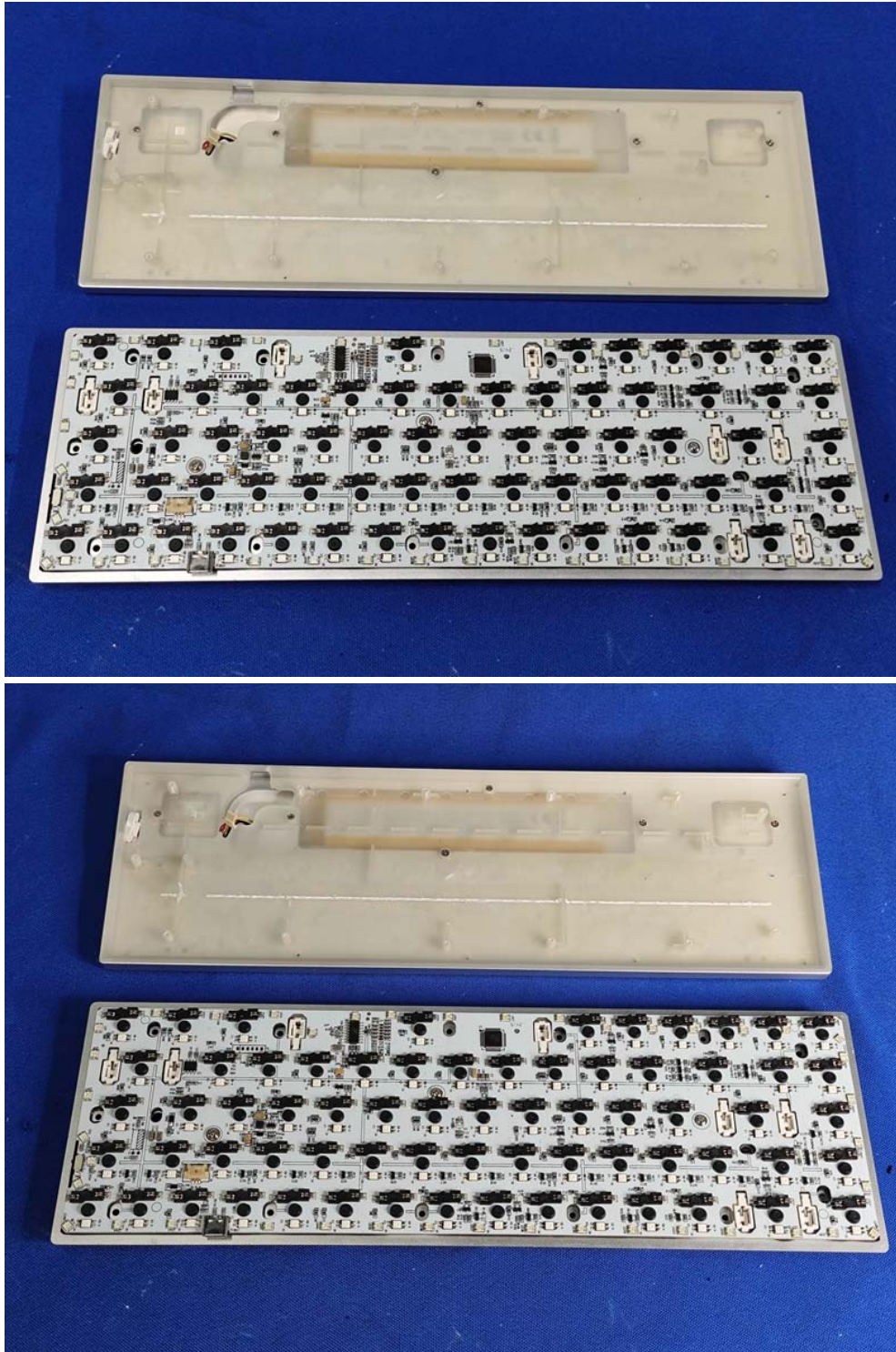
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Inside View-Keyboard



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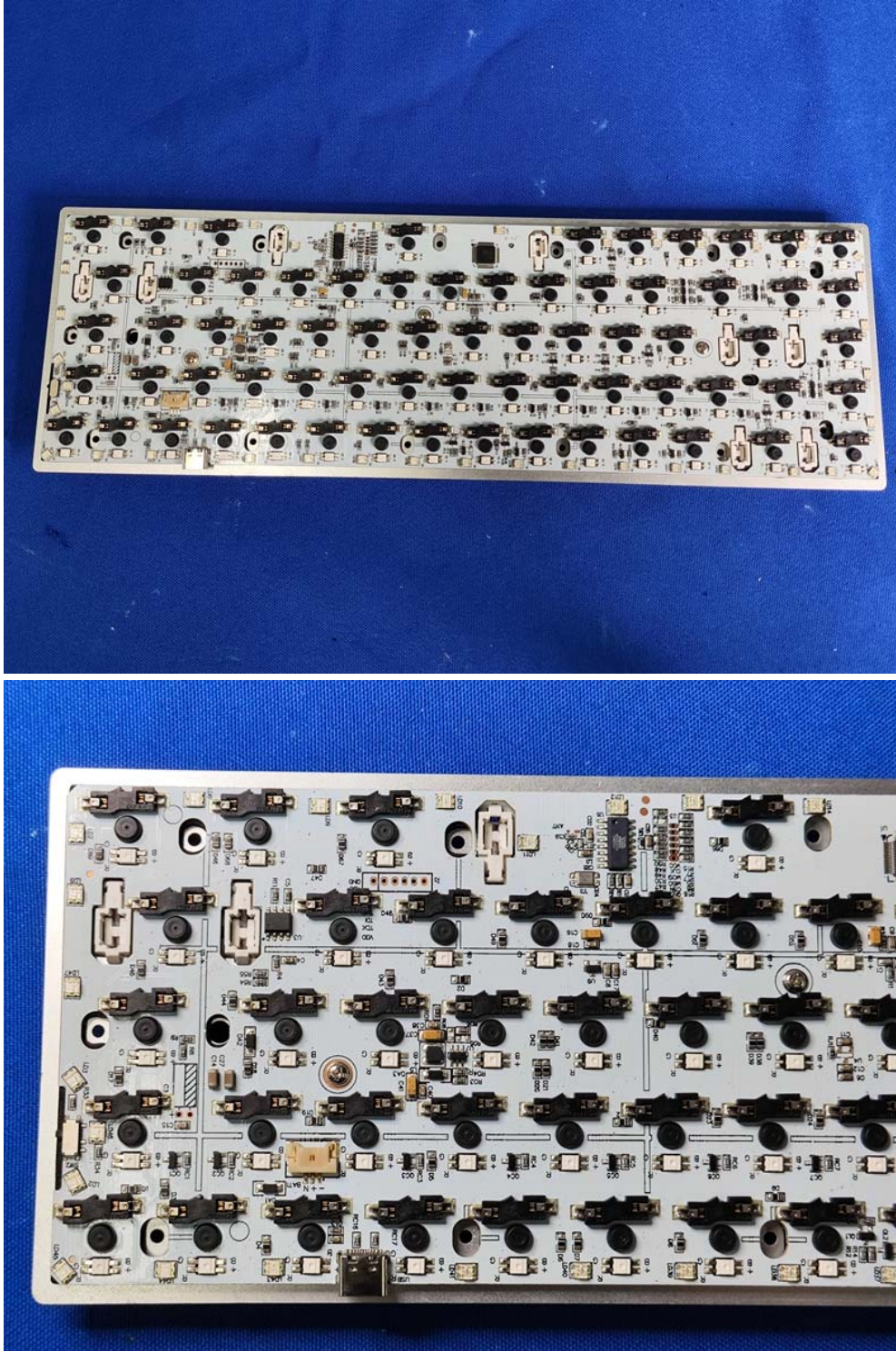
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Inside View-Keybord



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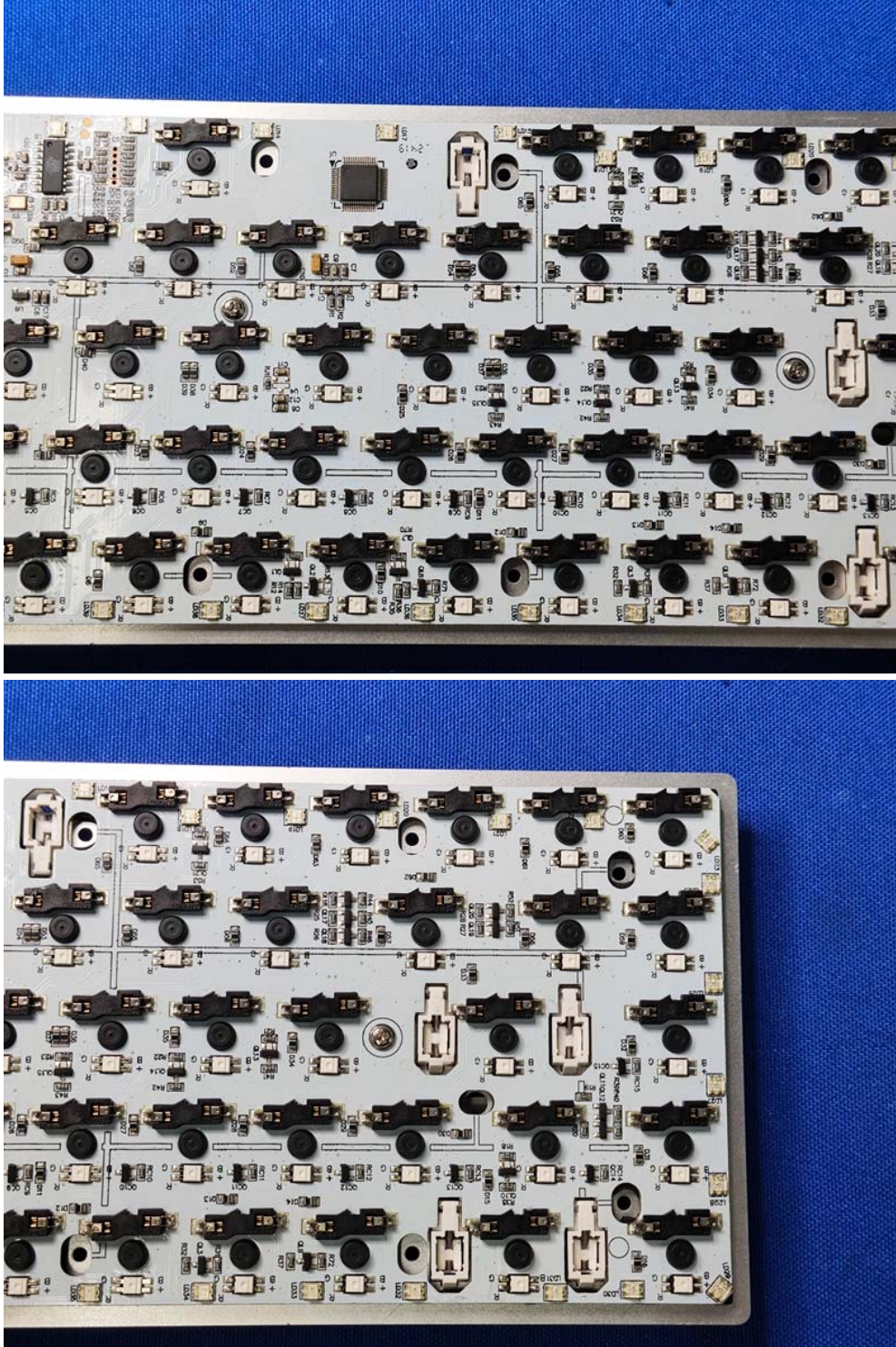
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Inside View-KeyBoard



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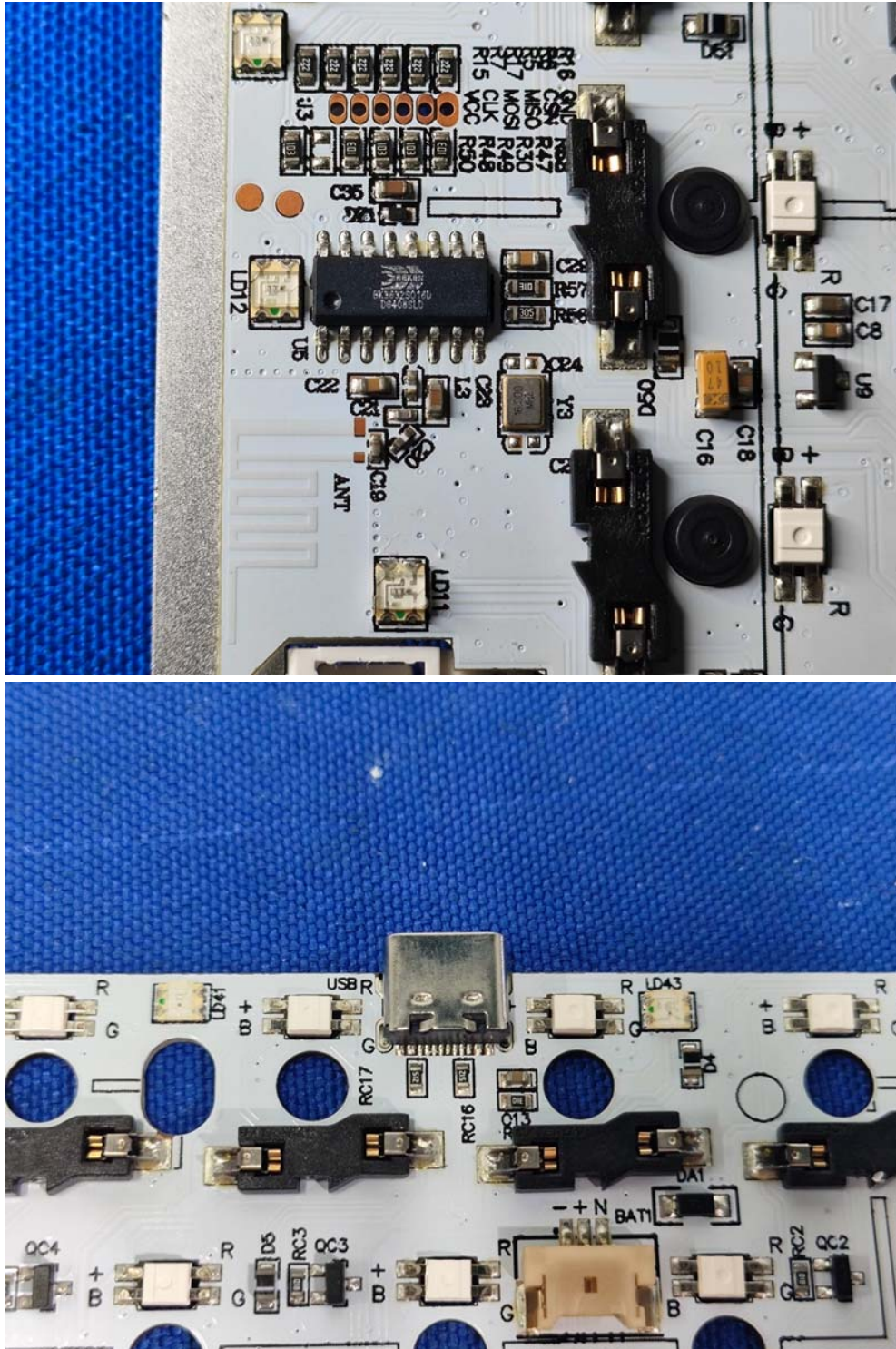
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Inside View-Keyboard



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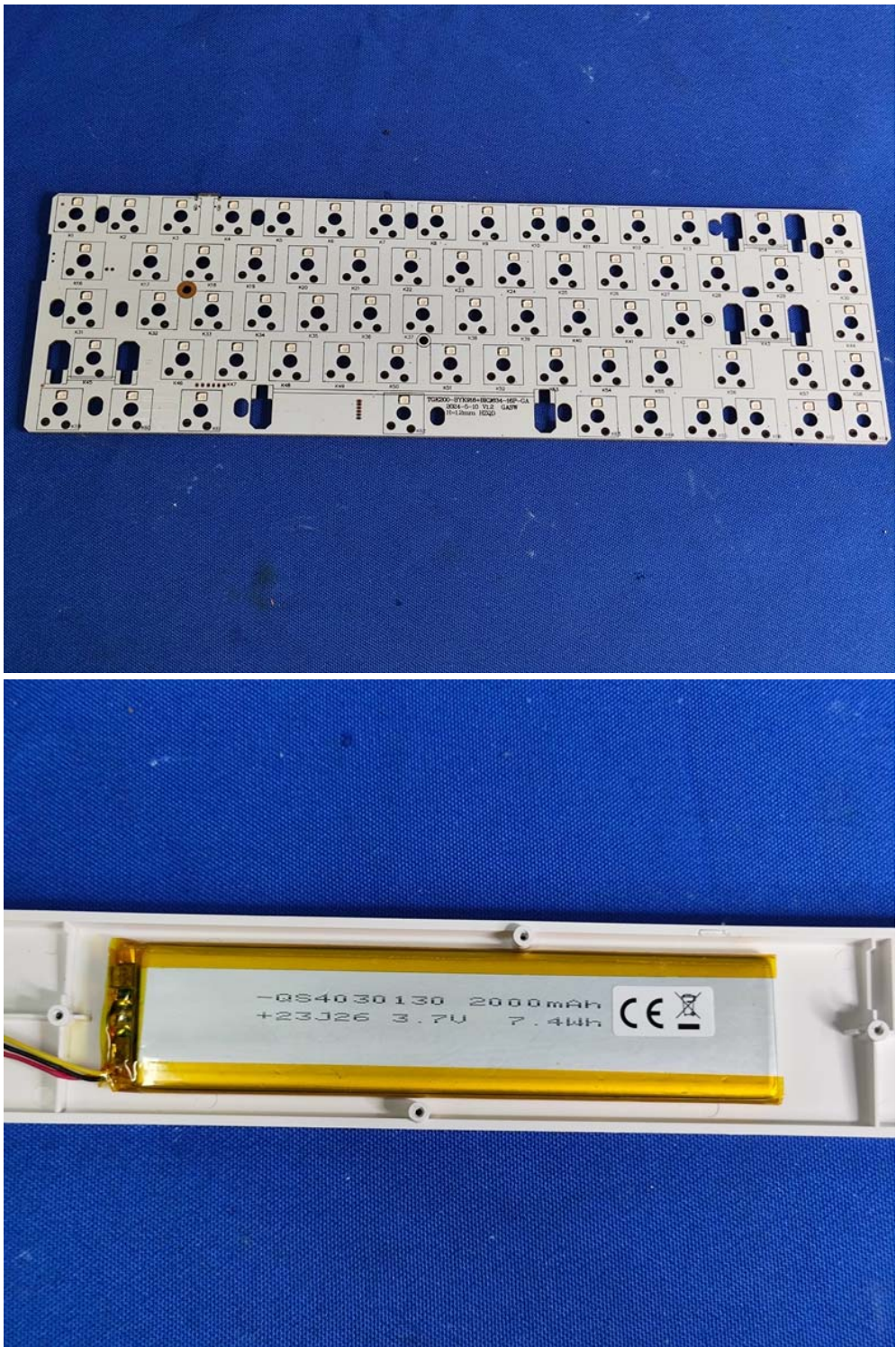
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Inside View-KeyBoard



--End of the report--

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